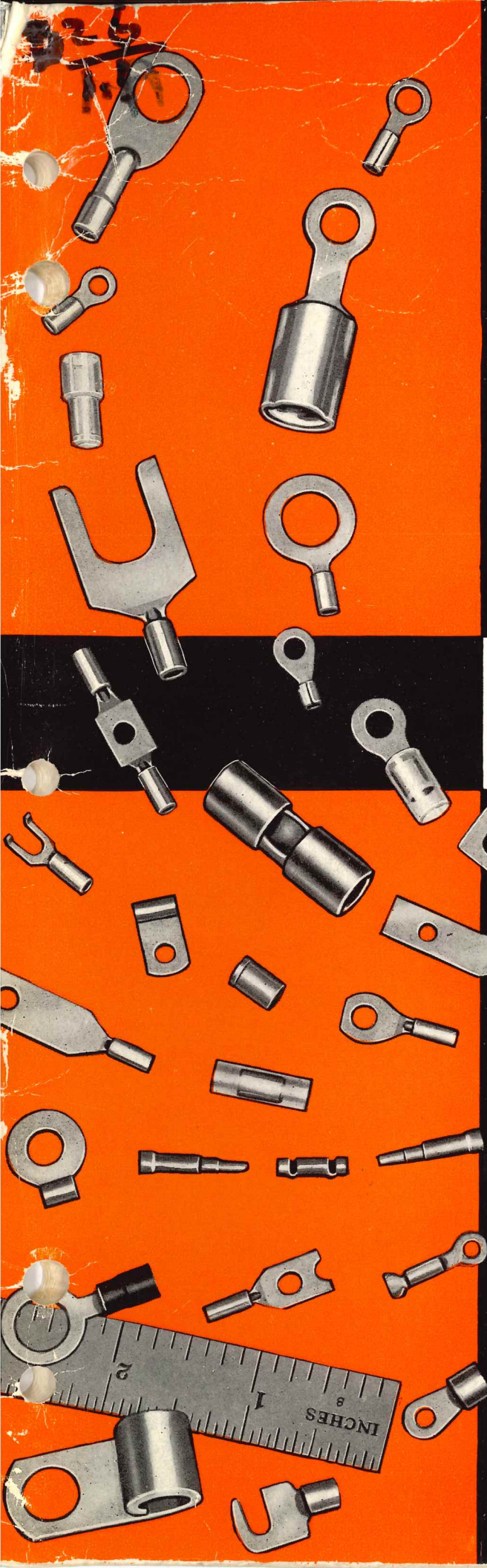

STA-KON

Pressure

TERMINALS

and

CONNECTORS

For Commercial Applications

See Bulletin 63
for Military Supplement

T&B

ENGINEERED

BULLETIN 62

THE THOMAS & BETTS CO.
INCORPORATED
ELIZABETH 1, NEW JERSEY

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THE THOMAS & BETTS CO.

Incorporated

Main Office and Factory **Elizabeth 1, N. J.**

In CANADA: THOMAS & BETTS, LTD., Montreal

STA-KON®

Pressure

TERMINALS

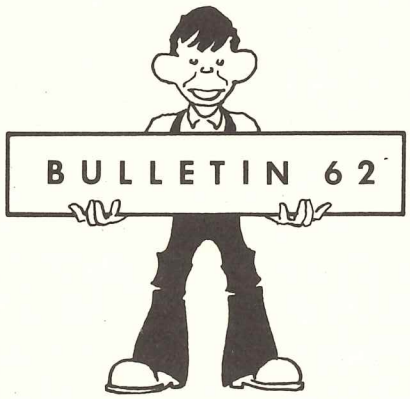
and

CONNECTORS*

FOR COMMERCIAL APPLICATION

(See Bulletin 63 for Military Supplement.)

Terminals that are shown in this Bulletin are approved by the Underwriters' Laboratories.



September 1954

T&B ENGINEERED

THE THOMAS & BETTS CO.
INCORPORATED
ELIZABETH 1, NEW JERSEY

*Patented

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T&B ENGINEERED

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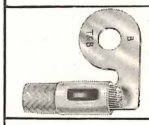	Gooseneck Terminals	55
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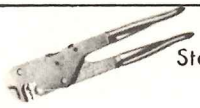	Sta-Kon Tools	64-67
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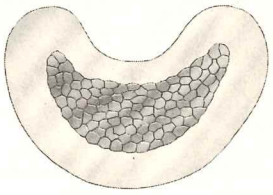
UNINSULATED TYPE

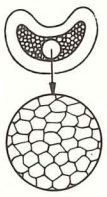
The Sta-Kon Terminal provides a secure mechanical grip on the wire and an excellent electrical connection, because of the way it is made and installed. Formed from high conductivity copper, it has a barrel to hold the conductor and a tongue to go over a terminal stud. Serrations inside the barrel increase its mechanical grip on the wire. An all-over tin plating protects the terminal from corrosion.

During the installation the barrel is supported in a half-round nest in one jaw of the tool while the indentor stakes the barrel on the wire. The size of the indentor insures a long stake and, consequently, a large area of pressure contact between the terminal and the wire. This large contact area means high mechanical pull-out and low electrical resistance. Careful gauging of every tool guarantees uniform mechanical and electrical performance in Sta-Kon Terminals.

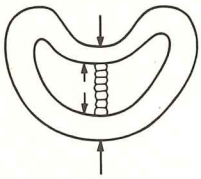
This is what happens within the terminal. The barrel, staked down by the indentor, compresses the wires inside it. The strands are pressed into such intimate contact with the barrel and each other that they make clean electrical contacts, inhibiting the entry of air or corrosion. Because of the shape of the stake, the barrel cannot return to its original shape, but remains compressed on the wire strands. The compressed strands exert a corresponding spring pressure outward against the barrel. The area of intimate contact between the wire and the barrel of a Sta-Kon Terminal is greater than the cross sectional area of the wire. See the actual photograph of the cross section of a terminal showing the wires compressed under the staked portion. Sta-Kon Terminals properly installed have the three essentials of a good electrical joint: large area of contact, clean contact, and spring pressure on the contact.



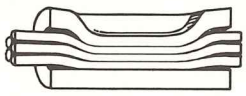
Sta-Kon Barrel
After Staking
(Actual photograph)



Clean, intimate contacts



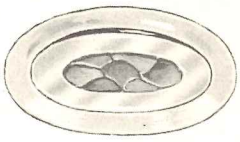
Contact maintained by spring pressure



Large area of contact
Greater than cross sectional area of wire

INSULATED TYPE

The difficult thing about any insulated terminal is to install it without damaging the insulation. By means of a newly developed elliptical nest, T&B tools are able to do this. The elliptical opening in the jaws exerts such uniform pressure on all sides of the terminal that the insulation is the same thickness all around the compression. There are no thin spots nor ruptures. Insulated Sta-Kon Terminals installed with the new elliptical compression pass their high voltage dielectric test as easily as they pass their mechanical pull-out test. Even dehydrated insulated terminals and insulated pigtail connectors that have been baked at 180° F for a week install without cracking. The compressive action of the new tool anchors the insulation, so that it cannot come loose from the terminal.

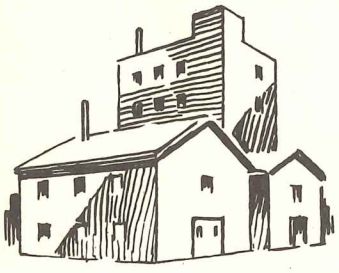


Insulated Terminal compressed with elliptical nest

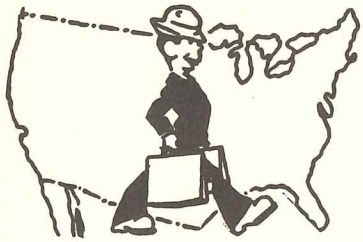
HOW THE T&B PLAN WORKS FOR YOU

T&B ENGINEERED

THE DISTRIBUTOR SAVES US

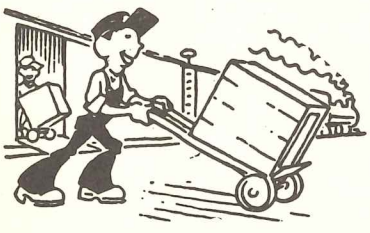


WAREHOUSES



SALESMEN

CLERICAL HELP



SHIPPING EXPENSES

Long ago T&B instituted its policy of selling all its products through authorized electrical distributors—never through the inefficient method of manufacturer to consumer. At the time of its establishment that policy seemed the only economically sound way to distribute electrical supplies. Now that the plan has been proved under depression, under wartime shortages and restrictions, and under prosperity, it is recognized as a pre-eminent example of good business practice.

For you, the consumer, the T&B Plan of exclusively wholesale distribution means a saving of actual cash and infinite bother. The distributor relieves the manufacturer of the appreciable costs of warehousing, of selling and shipping in retail quantities, and of handling the credit of thousands of customers. We have national distribution of T&B fittings without having to build and maintain warehouses throughout the country. Our sales force is small, keen and efficient, because our men call primarily on distributors, keeping in touch with consumers' problems through calls with the distributor's salesmen. Because of the distributor, we are free of the multitude of clerical detail that goes with entering and filling thousands of small orders. With a relatively small clerical force we can fill large orders and check credit effectively. Shipping in large lots, we save transportation costs. All these economies—in warehousing, in sales personnel, in clerical force, in shipping costs—we pass on to the distributor.

The distributor passes these savings on to you in the form of lower costs and services performed. He is an expert in buying, in stocking, in extending credit. Set up to perform just those functions, he can accomplish them more economically than we, the manufacturer, or you, the consumer. He warehouses for you, anticipating your needs. He saves you drayage. He delivers the T&B products you want, where you want them, when you need them. And it is not T&B products alone that he distributes. He handles the products of scores of reputable manufacturers and divides the cost of handling among all of them. As a result you can buy, efficiently, all your electrical supplies from one source, your local T&B Distributor.

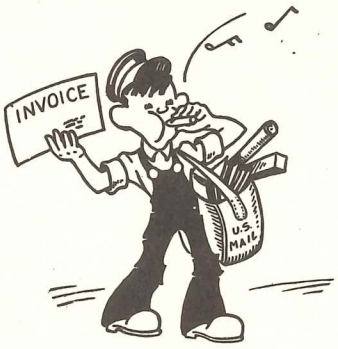
The Distributor frees us to do the work we do best: the design and manufacture of electrical fittings. In the same way he frees you. You are not primarily interested in buying and stocking electrical material: you are concerned with using it. The Distributor frees you of the thousand and one details of distribution to do the thing you do best: installing electrical equipment.

T&B has been manufacturing and selling good electrical fittings for well over half a century. That experience has confirmed our belief that the only economically sound system of distribution of electrical products is through the Electrical Wholesaler. For the manufacturer and for you, the consumer, "The T&B Distributor serves and saves."

THE DISTRIBUTOR GIVES YOU

EXPERT BUYING SERVICE

LOW-COST STOCKING



CREDIT

TIMELY DELIVERY

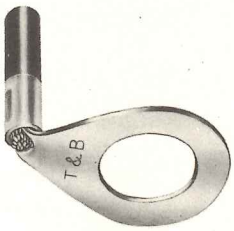
VARIATIONS OF STANDARD STA-KON TERMINALS

While thousands of Standard Sta-Kon Terminals are fully listed in these pages, an infinite number of variations, for special purposes or to fit specific installations, is available. Some of the more common variations, and easy ordering information, are given below.

Insulated Sta-Kon Terminals

In addition to the insulated Sta-Kon Terminals and Connectors listed on pages 45-51, most uninsulated Sta-Kon Terminals can be supplied, to order, with insulation. For an Insulated Sta-Kon Terminal, place the letter R before the catalog number and the number 1 after it.

Example: Cat. No. B85 as an Insulated Terminal is Cat. No. RB851.



UPRIGHT TERMINALS

Most standard Sta-Kon Terminals can be furnished with the barrel bent up at ninety degrees to the tongue. For an Upright Terminal add the letter U to the catalog number.

Example: Cat. No. B 85 as an Upright Terminal is Cat. No. B 85U.

FORKED (SPADE) TONGUE TERMINALS

For a Forked Terminal add the letter F to the Ring Tongue catalog number.

Example: Cat. No. B 85 as a Forked Terminal is Cat. No. B 85F.

SIDE SLOT TERMINALS

For a Side Slot Terminal add the letter S to the Ring Tongue catalog number.

Example: Cat. No. B 85 as a Side Slot Terminal is Cat. No. B 85S.

HOOK TERMINALS

For a Hook Terminal add the letter H to the Ring Tongue catalog number.

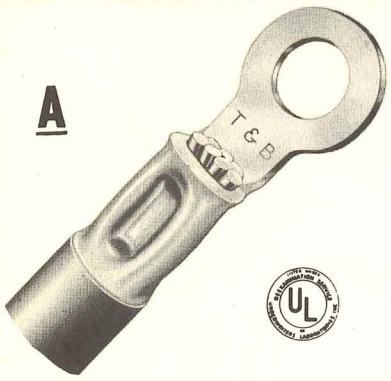
Example: Cat. No. B 85 as a Hook Terminal is Cat. No. B 85H.

In the Forked, Side Slot, or Hook Terminals the width of the slot is always the same as the diameter of the stud hole in the standard Ring Tongue Terminal.

STA-KON TERMINALS

T&B ENGINEERED

A



Wire Range

AWG No. 22—18

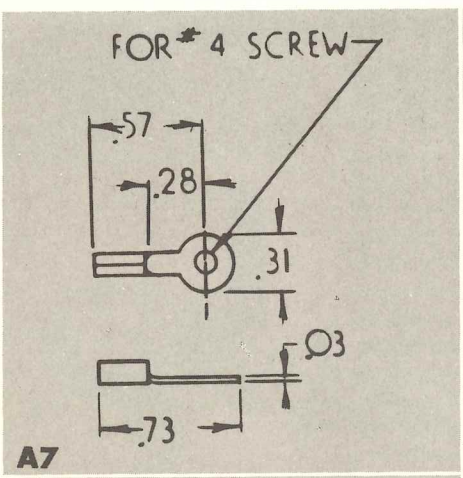
Aircraft AN-22—AN-18

Any wire from .025" to .052" Diameter

UL Listed for No. 18 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

Complete tool listing, pages 64-67.



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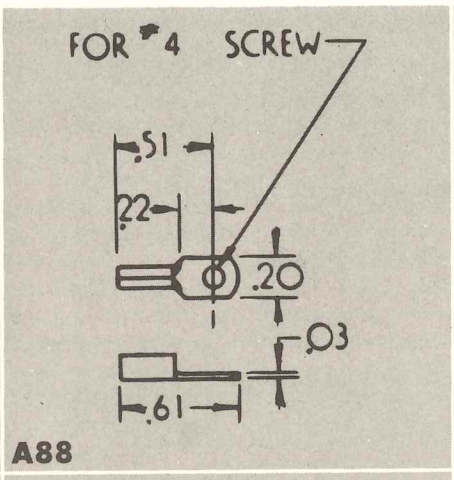

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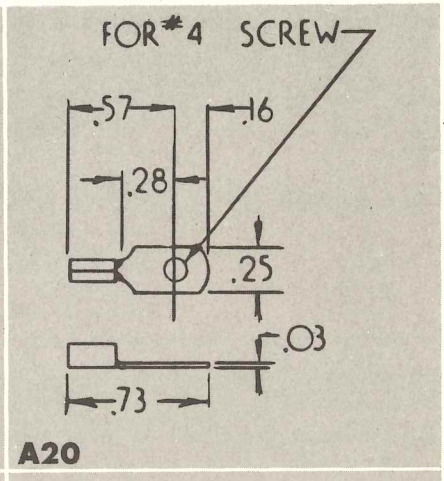

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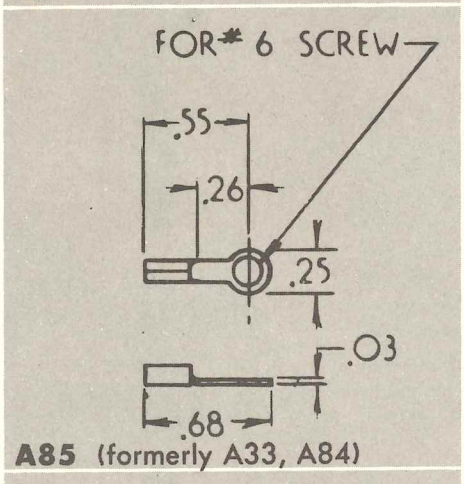

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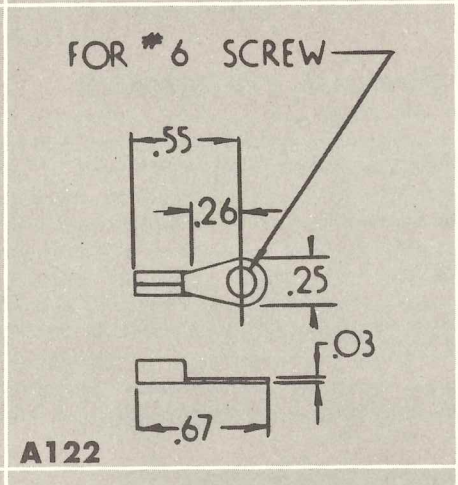

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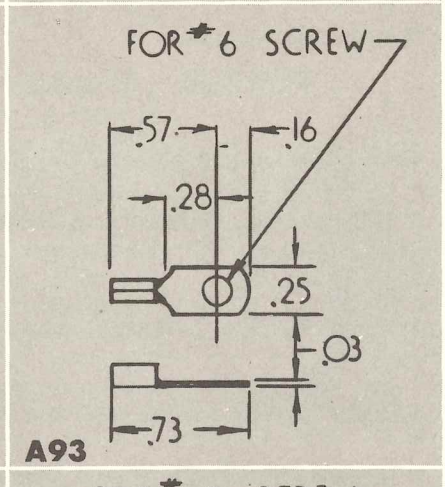

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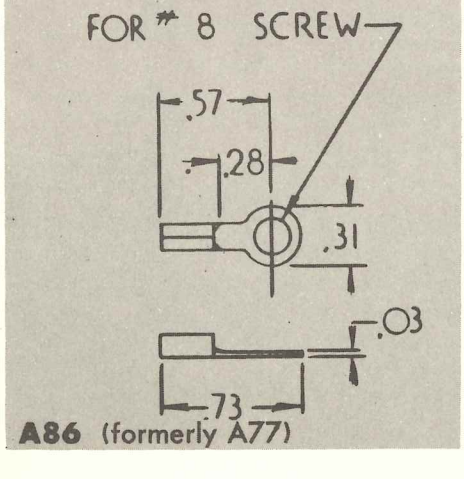

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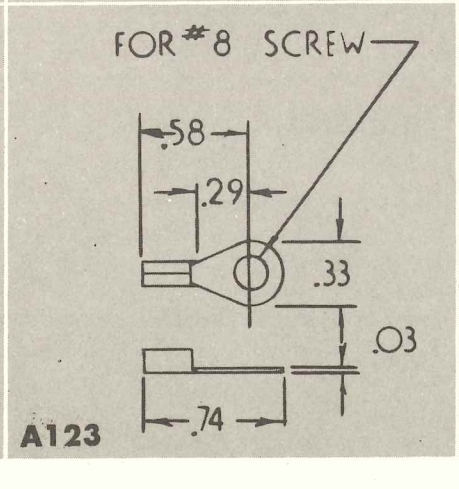

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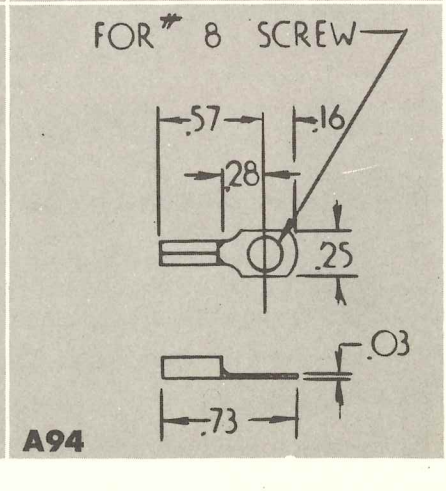

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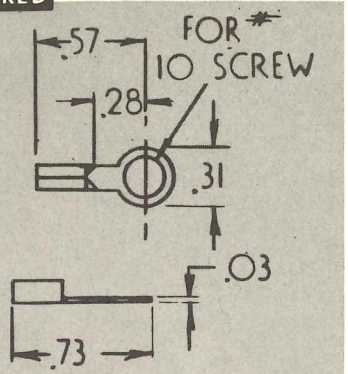


A87 (formerly A36)

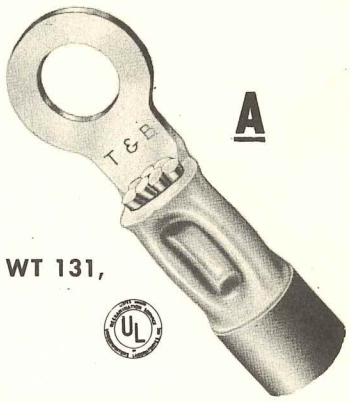
Wire Range

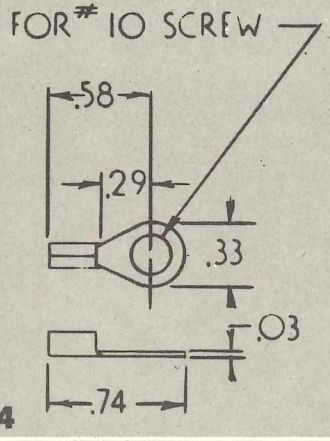
AWG No. 22—18
Aircraft AN-22—AN-18
Any wire from .025" to .052" Diameter

UL Listed for No. 18 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

Complete tool listing, pages 64-67.





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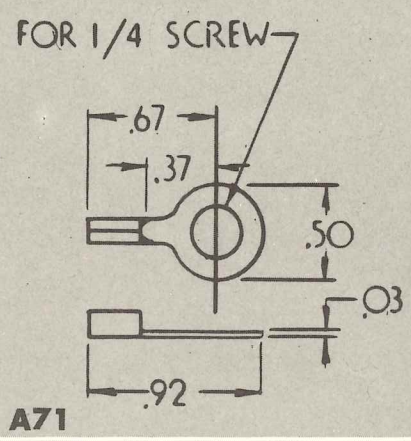

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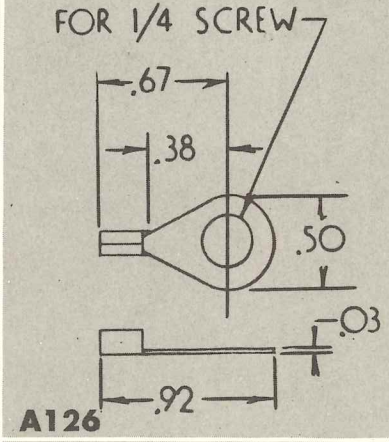

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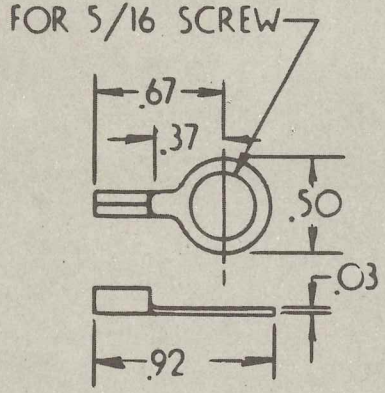

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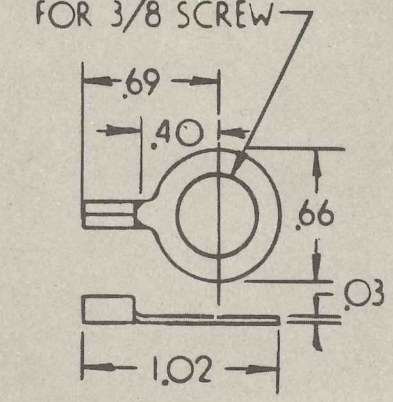

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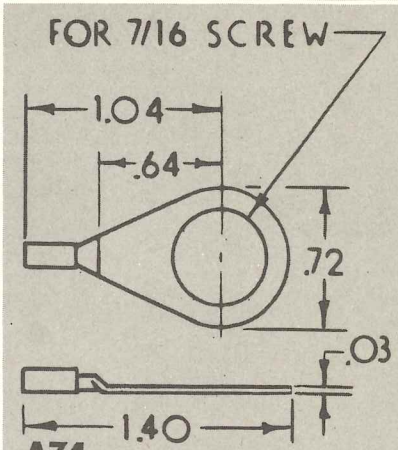
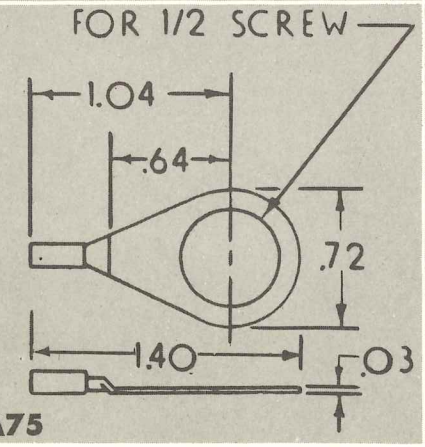
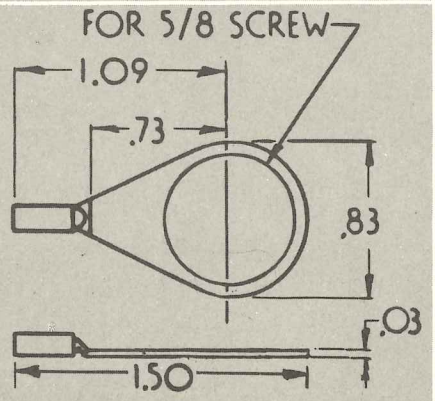


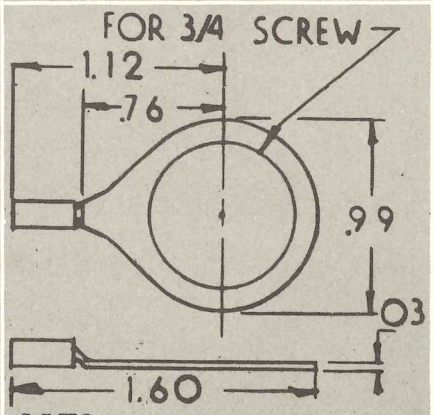
A74



A75



A177

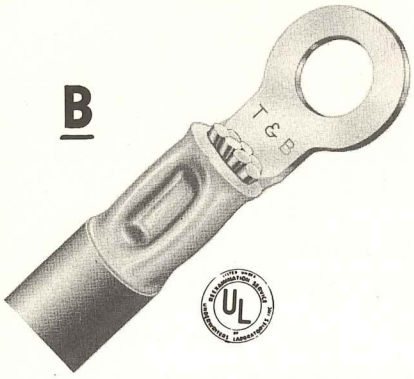


A178

STA-KON TERMINALS

T&B ENGINEERED

B



Wire Range

AWG No. 16—14

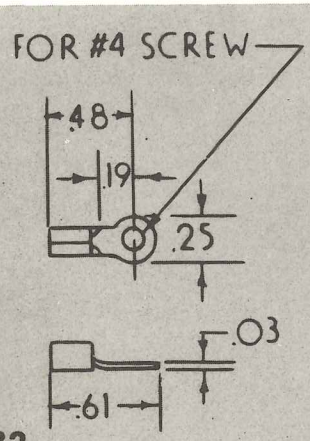
Aircraft AN-16, AN-14

Any wire from .032" to .080" Diameter

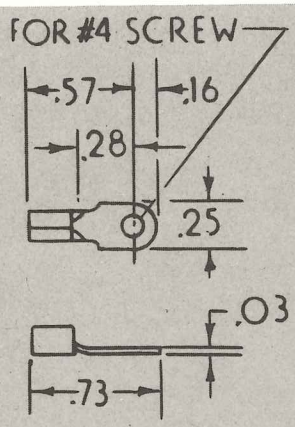
UL Listed for No. 18—14 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

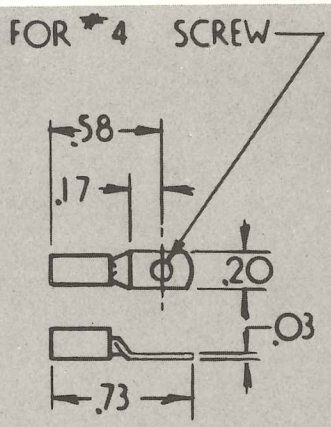
Complete tool listing, pages 64-67.



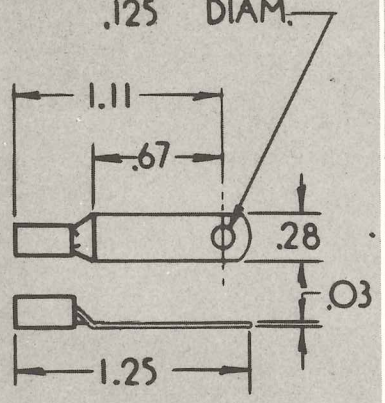
B132



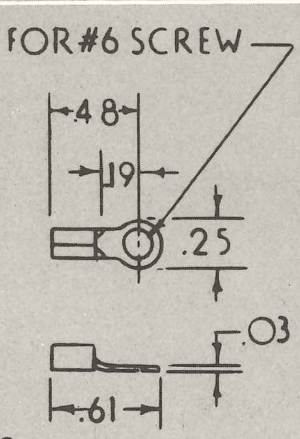
B20



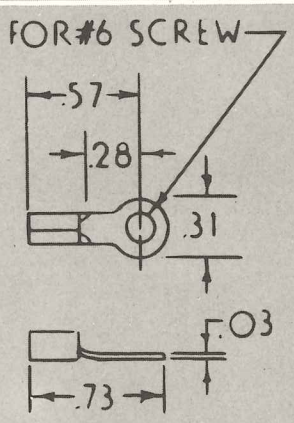
B21



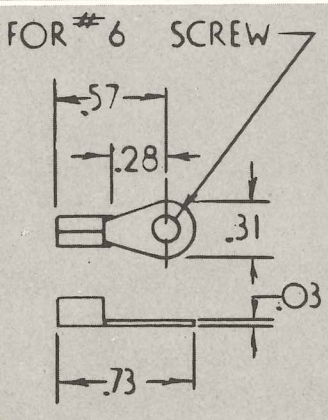
B11



B133



B85 (formerly B33)



B122

Wire Range

AWG No. 16—14

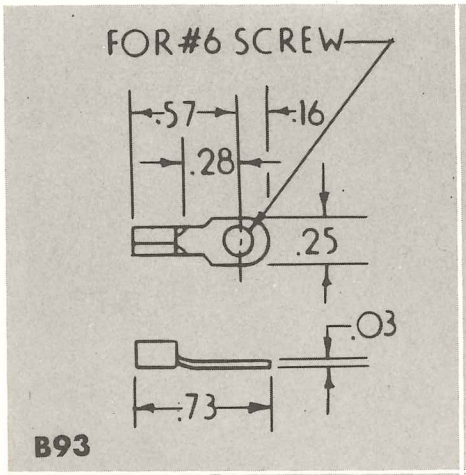
Aircraft AN-16, AN-14

Any wire from .032" to .080" Diameter

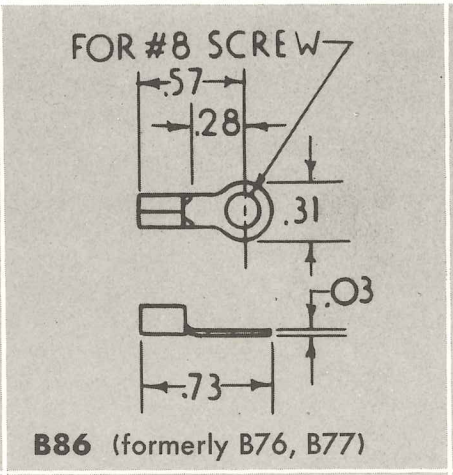
UL Listed for No. 18—14 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

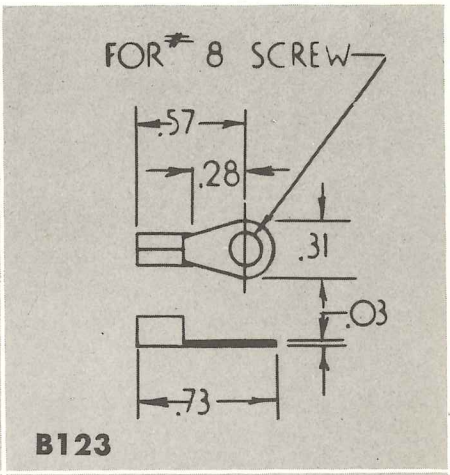
Complete tool listing, pages 64-67.



B93



B86 (formerly B76, B77)



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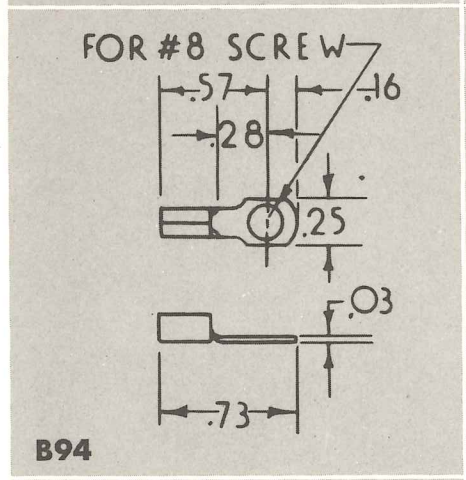
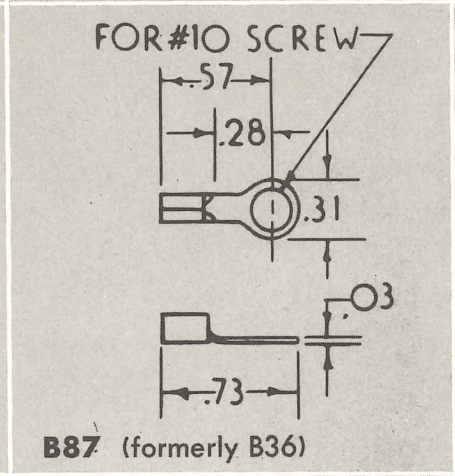
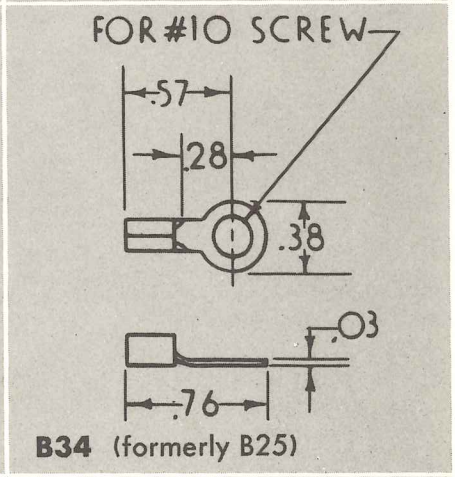


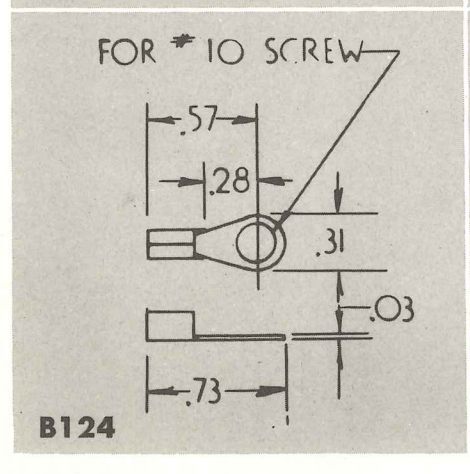
B94



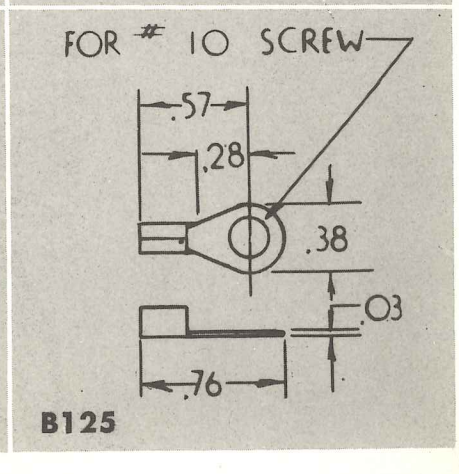
B87 (formerly B36)



B34 (formerly B25)



B124

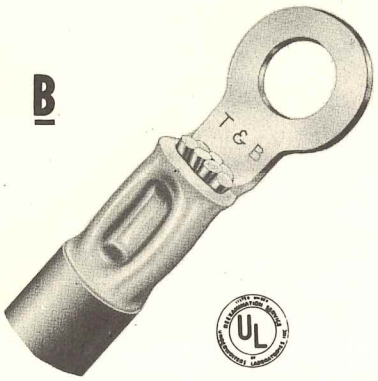


B125

STA-KON TERMINALS

T&B ENGINEERED

B



Wire Range

AWG No. 16—14

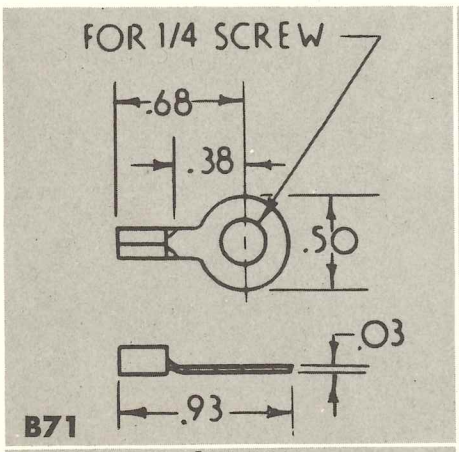
Aircraft AN-16, AN-14

Any wire from .032" to .080" Diameter

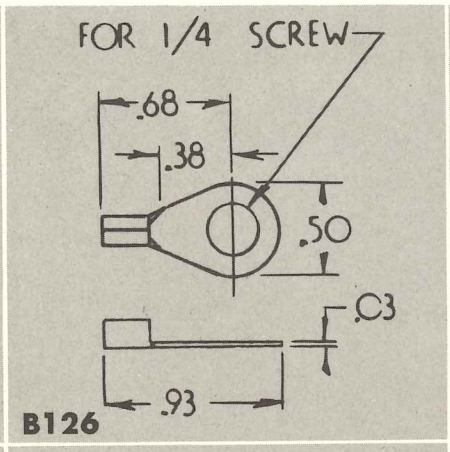
UL Listed for No. 18—14 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

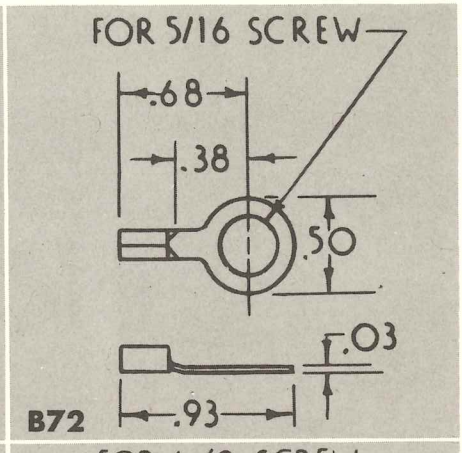
Complete tool listing, pages 64-67.



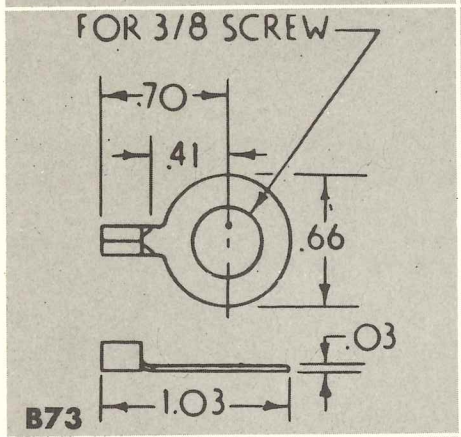
B71



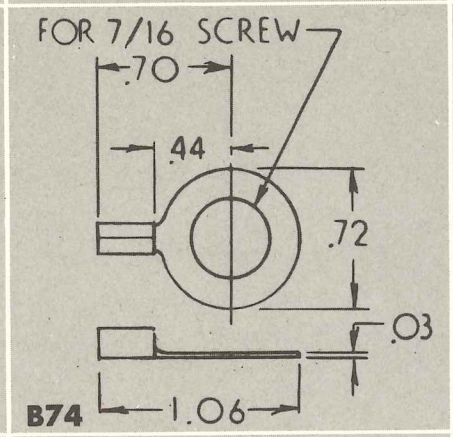
B126



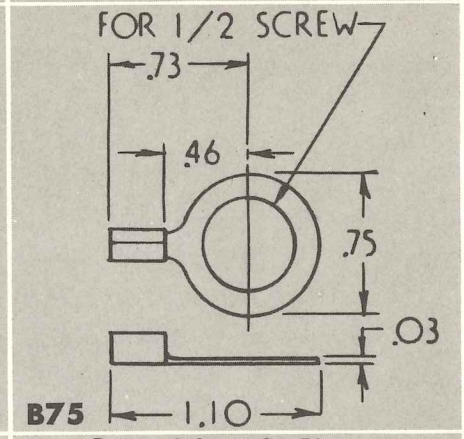
B72



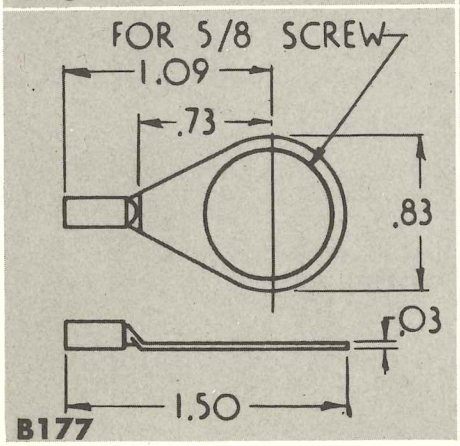
B73



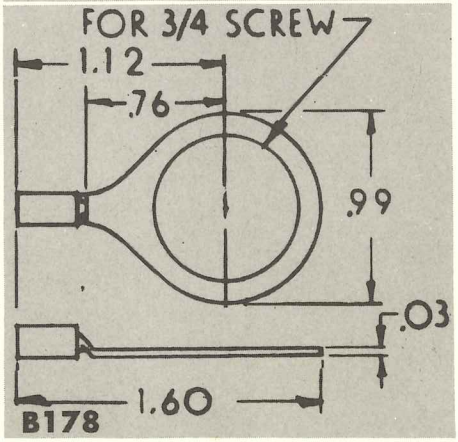
B74



B75



B177



B178

STA-KON TERMINALS

Wire Range

AWG No. 12—10

Aircraft AN-12, AN-10

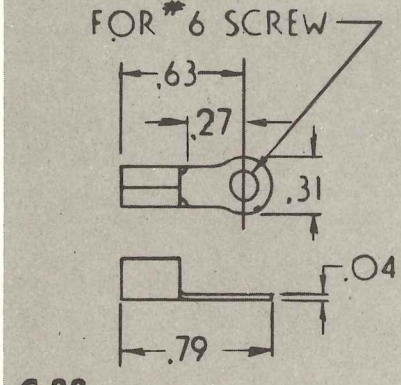
Any wire from .051" to .125" Diameter

UL Listed for No. 16—10 AWG

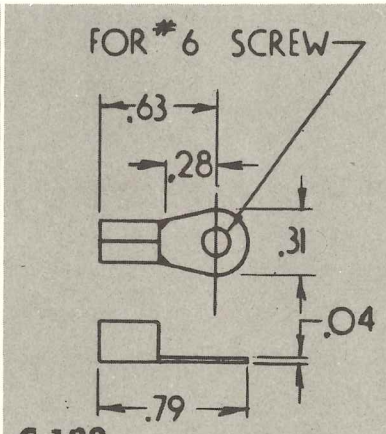
Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

Complete tool listing, pages 64-67.

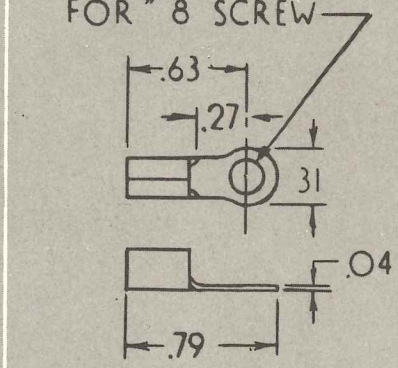
C



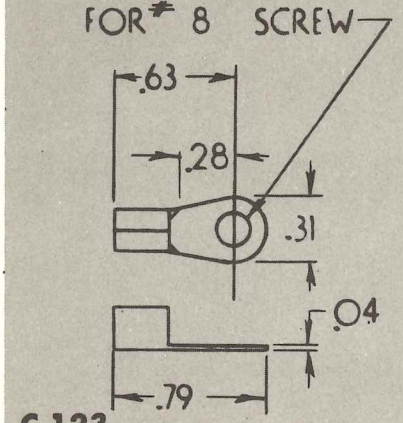
C 33



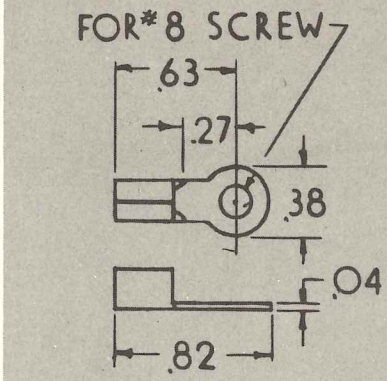
C 122



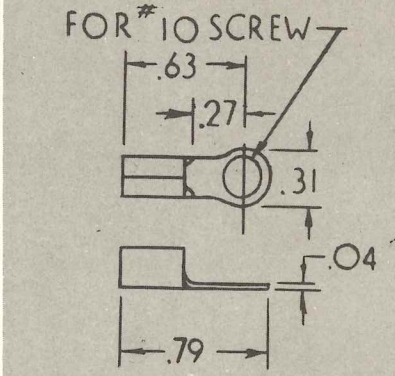
C 77



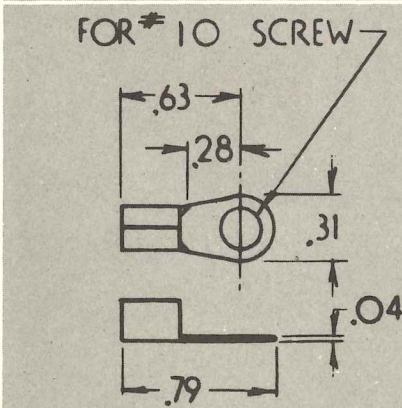
C 123



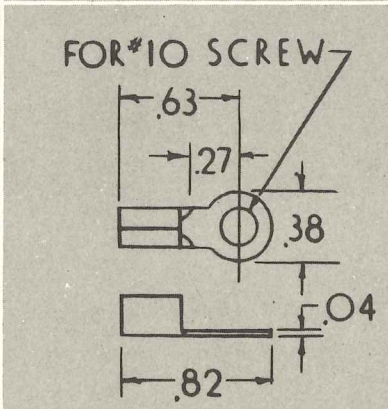
C 7



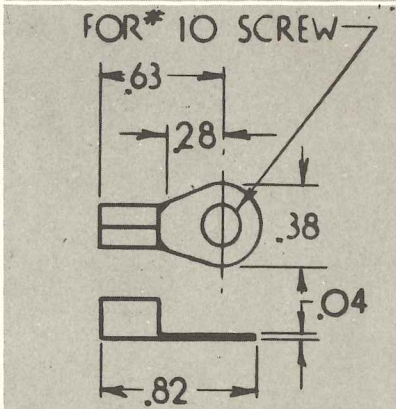
C 36



C 124



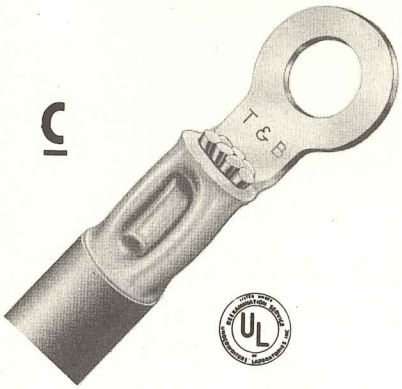
C 26 (formerly C76)



C 125

STA-KON TERMINALS

T&B ENGINEERED



Wire Range

AWG No. 12—10

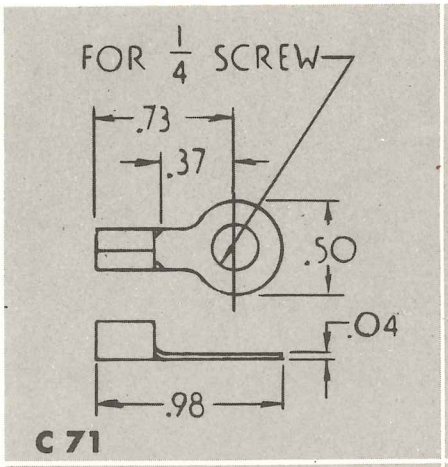
Aircraft AN-12, AN-10

Any wire from .051" to .125" Diameter

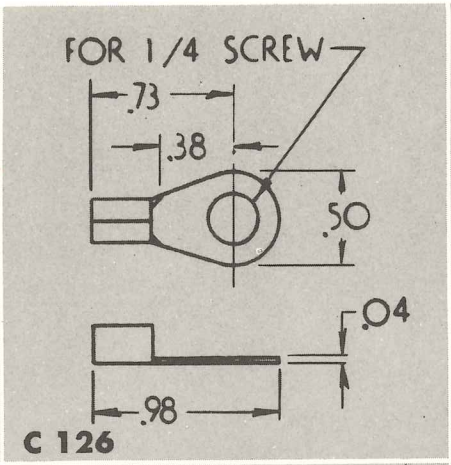
UL Listed for No. 16—10 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

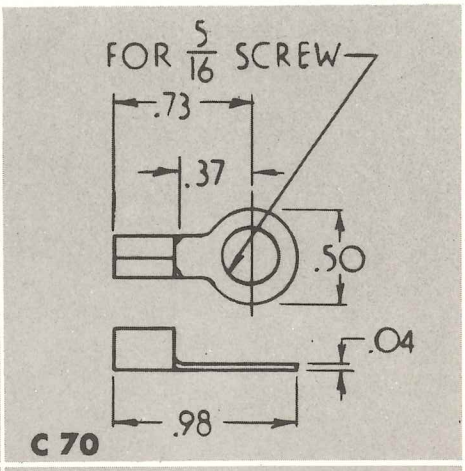
Complete tool listing, pages 64-67.



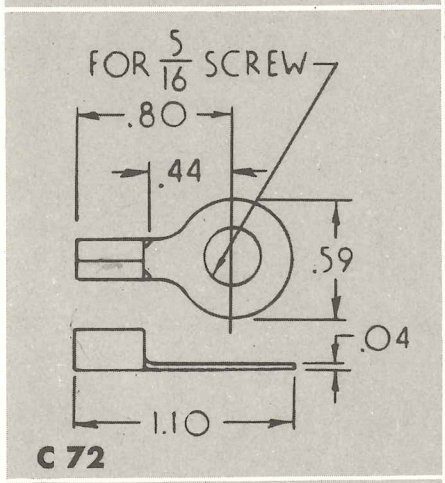
C 71



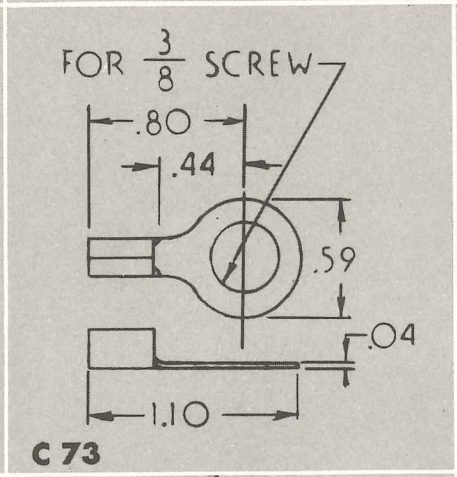
C 126



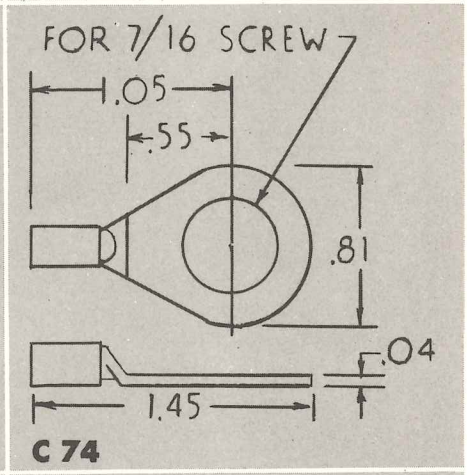
C 70



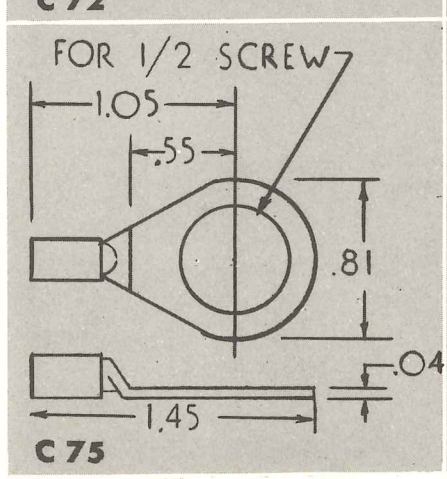
C 72



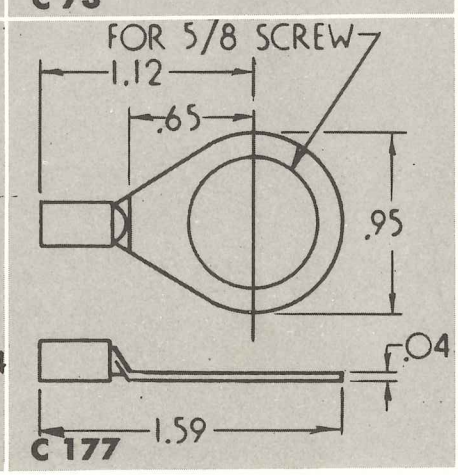
C 73



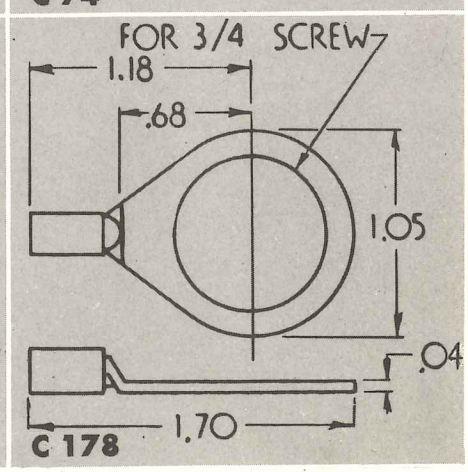
C 74



C 75



C 177



C 178

Wire Range

AWG No. 7, 8, 9

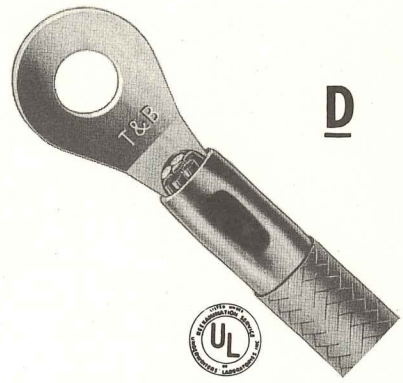
Aircraft AN-8

Any wire from .123" to .175" Diameter

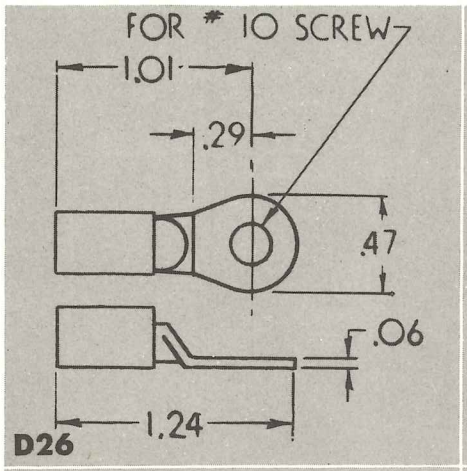
UL Listed for No. 7, 8, 9 AWG

Installing Tools: WT 115, WT 149, 21072

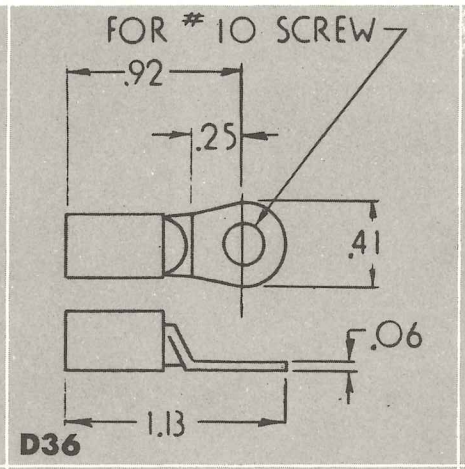
Complete tool listing, pages 64-67.



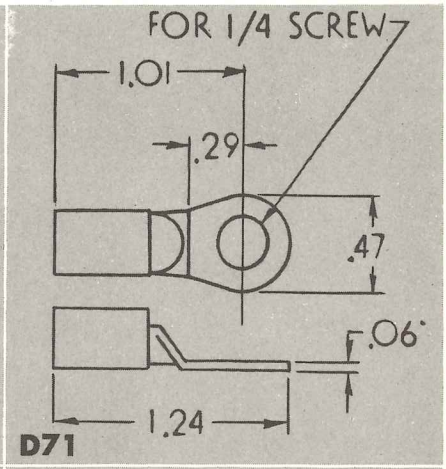
D



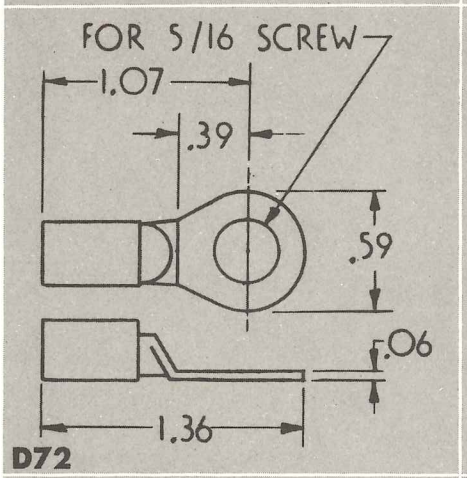
D26



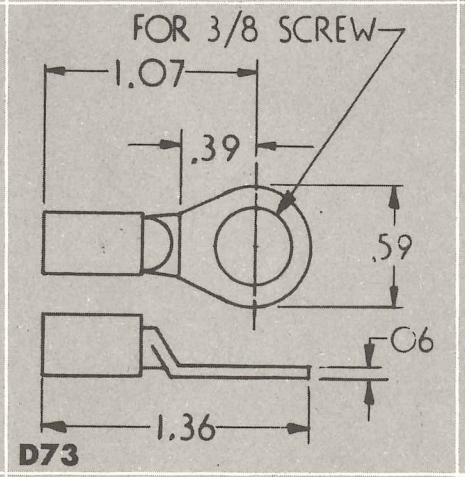
D36



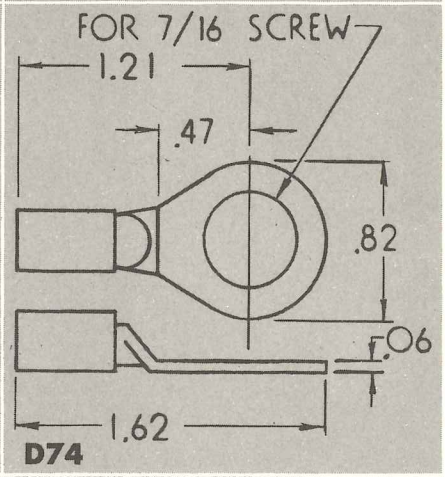
D71



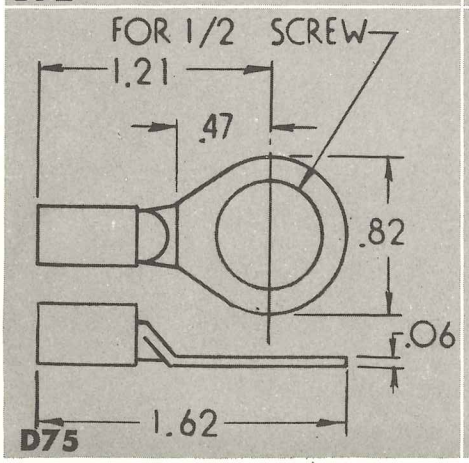
D72



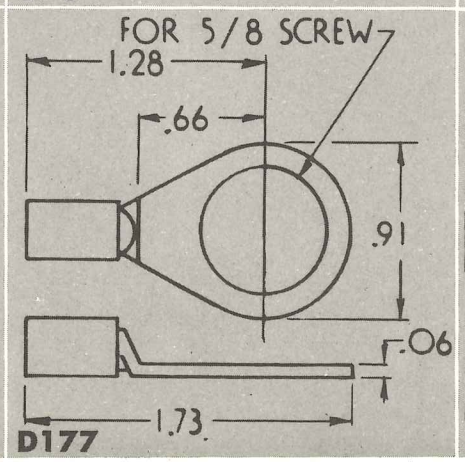
D73



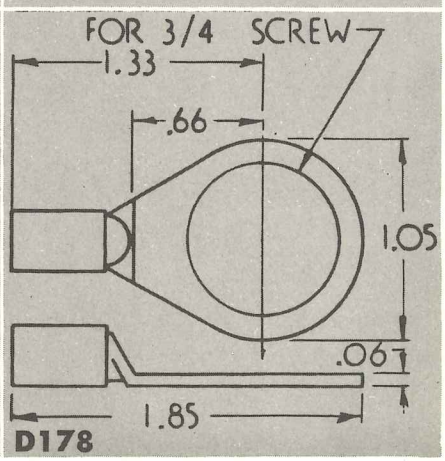
D74



D75



D177



D178

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

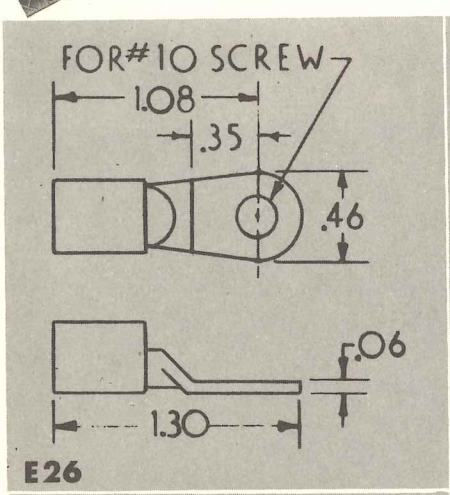
E

Wire Range
AWG No. 6, 5
Shipboard No. 23—20
Aircraft AN-6
Any wire from .169" to .222" Diameter

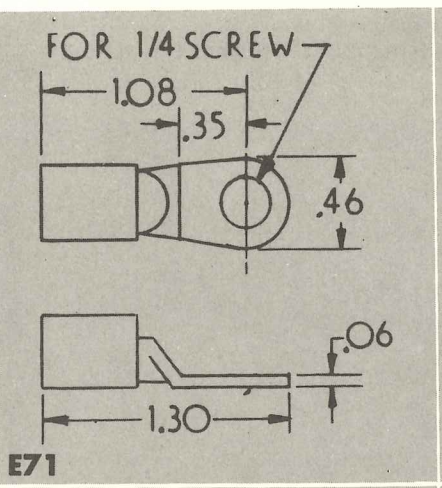
UL Listed for No. 6, 5 AWG

Installing Tools: WT 115, WT 149, 21072

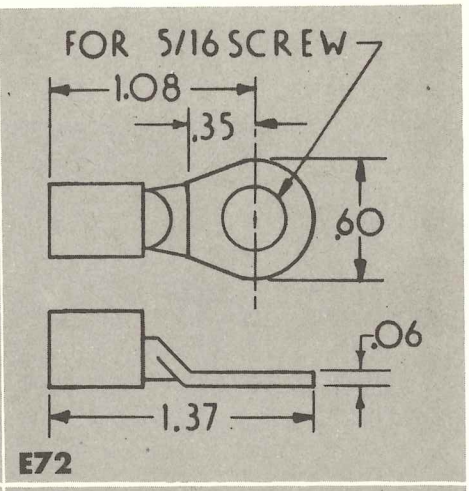
Complete tool listing, pages 64-67



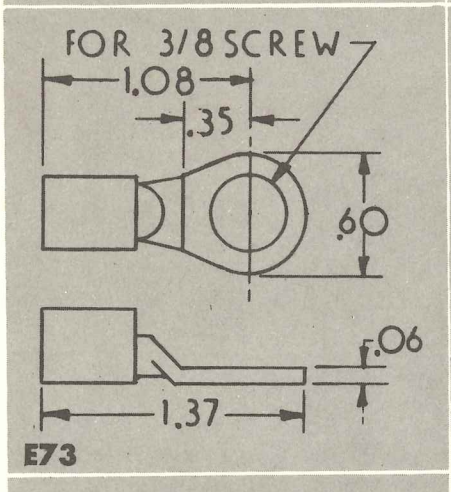
E26



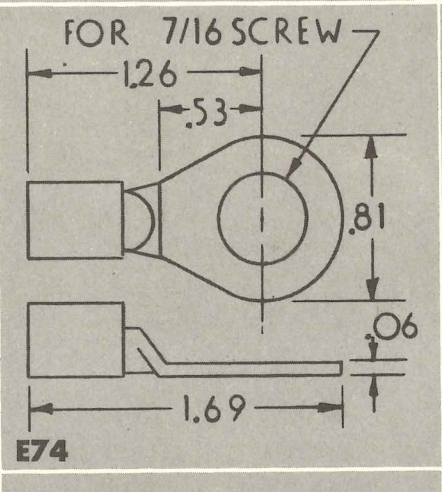
E71



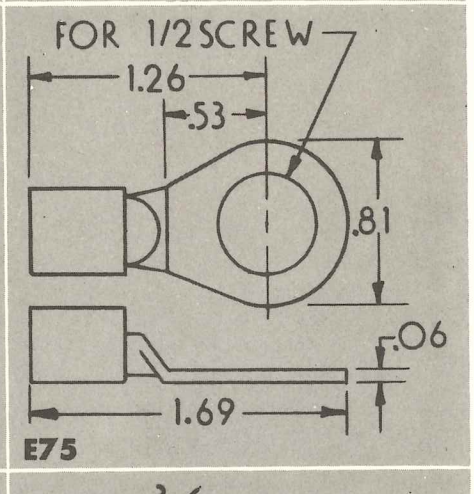
E72



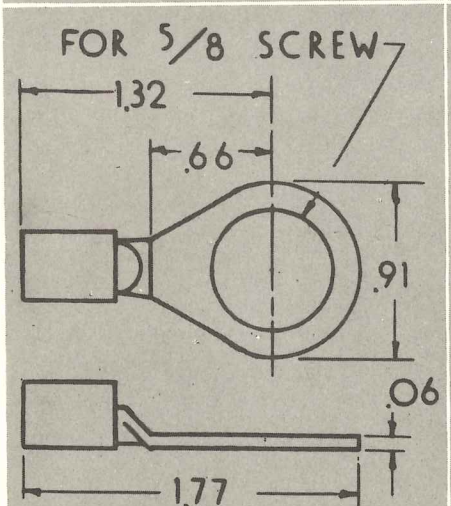
E73



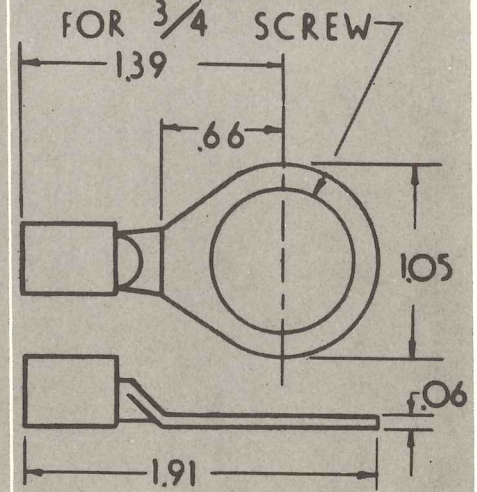
E74



E75



E177



E178

Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range

AWG No. 4, 3

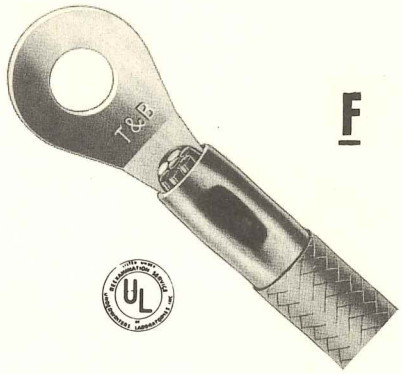
Aircraft AN-4

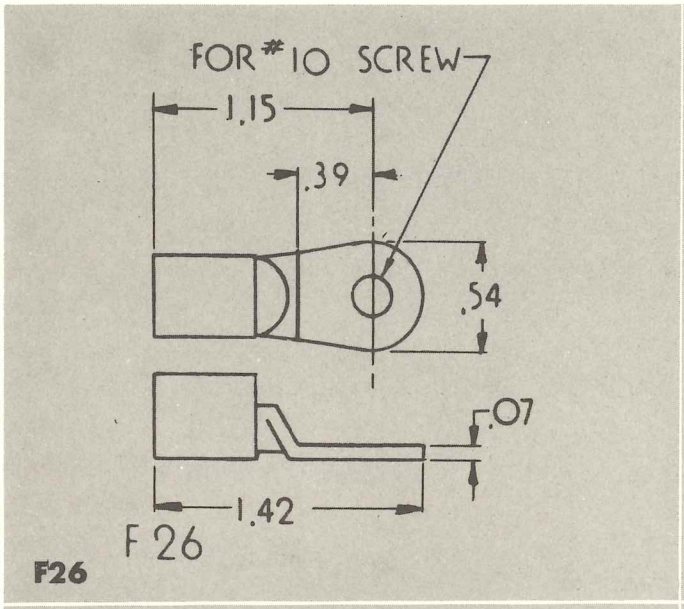
Any wire from .219" to .280" Diameter

UL Listed for No. 4, 3 AWG

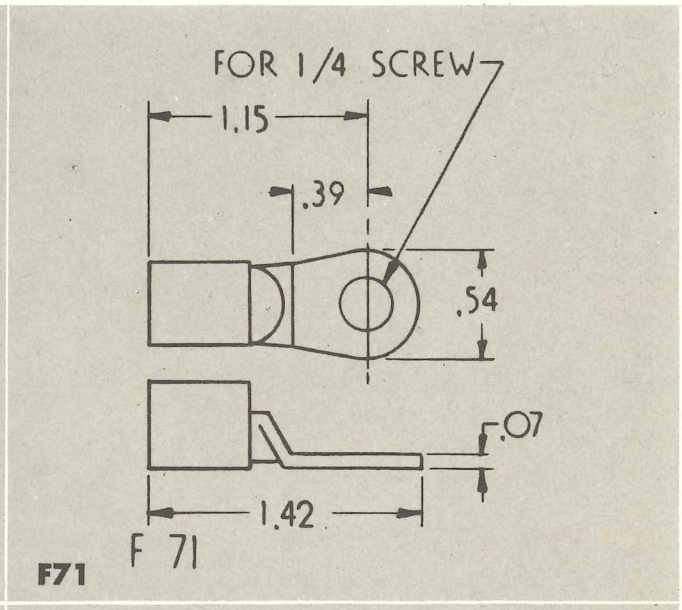
Installing Tools: WT 115, WT 149, 21072

Complete tool listing, pages 64-67.

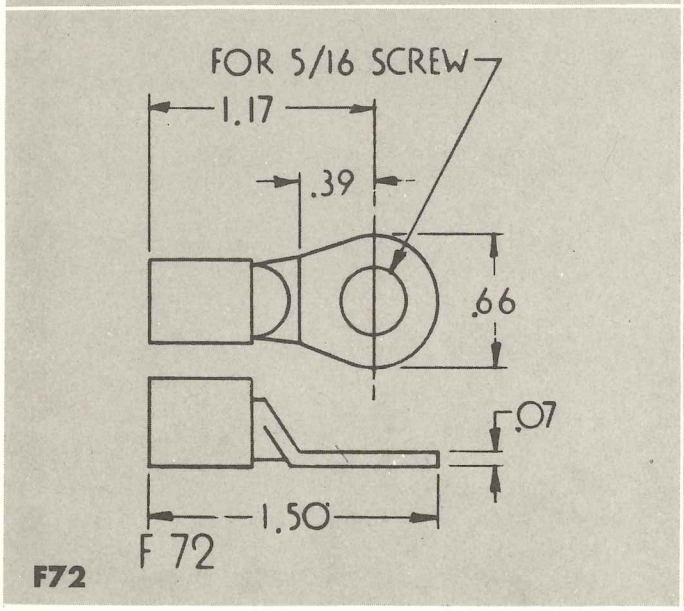




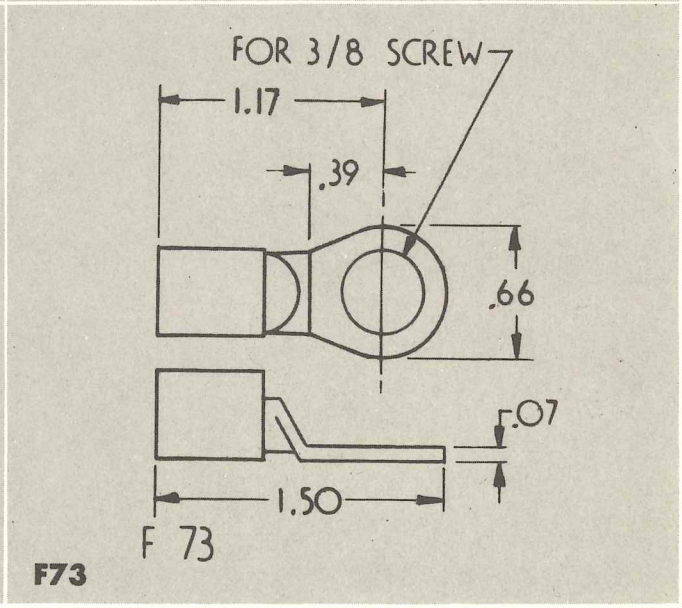
F26



F71



F72



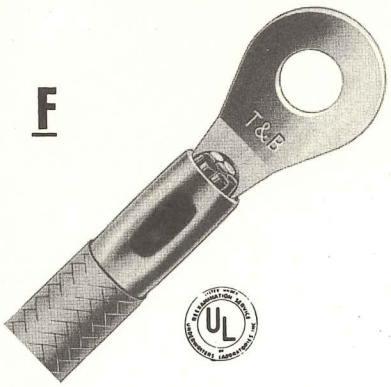
F73

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

F



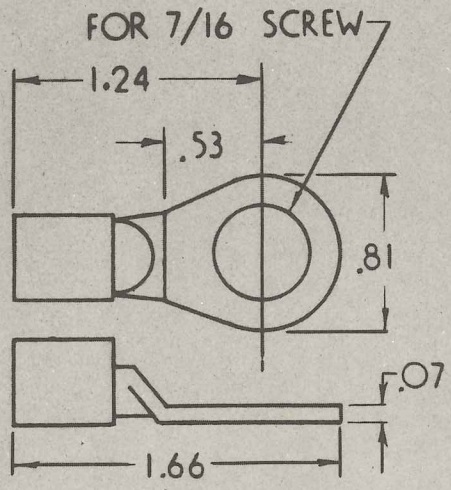
Wire Range

AWG No. 4, 3
Aircraft AN-4
Any wire from .219" to .280" Diameter

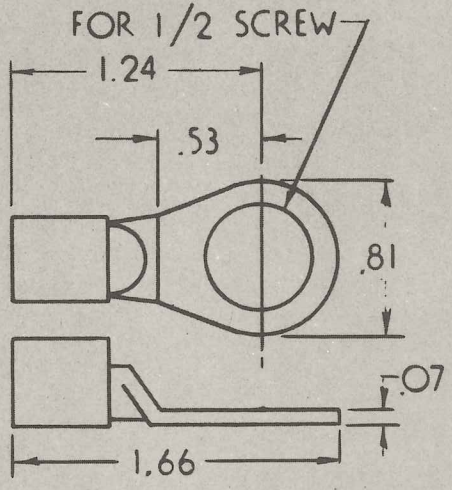
UL Listed for No. 4, 3 AWG

Installing Tools: WT 115, WT 149, 21072

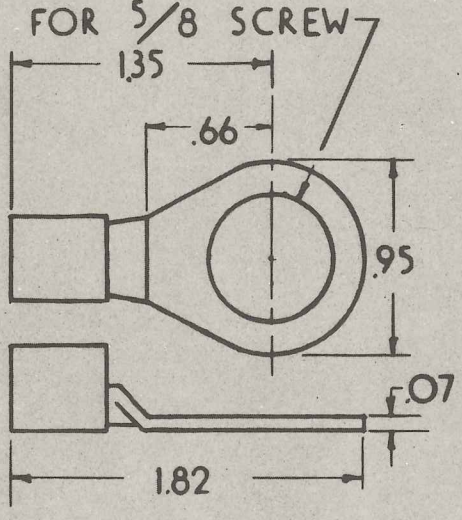
Complete tool listing, pages 64-67.



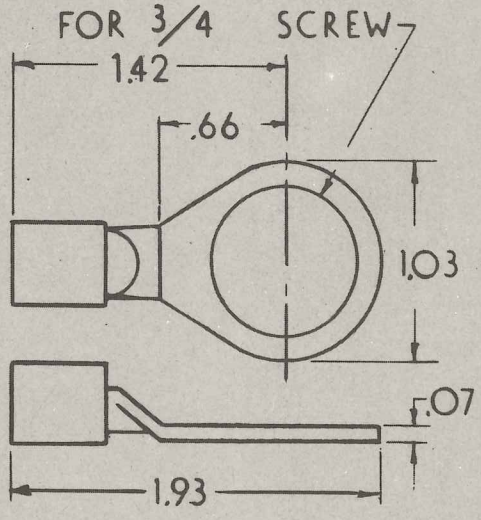
F 74



F 75



F 177



F 178

Improved manufacturing methods may cause slight changes in dimensions shown.

G

Wire Range

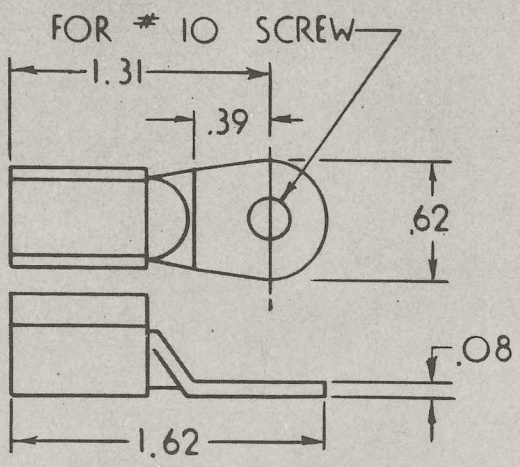
AWG No. 2

Any wire from .267" to .297" Diameter

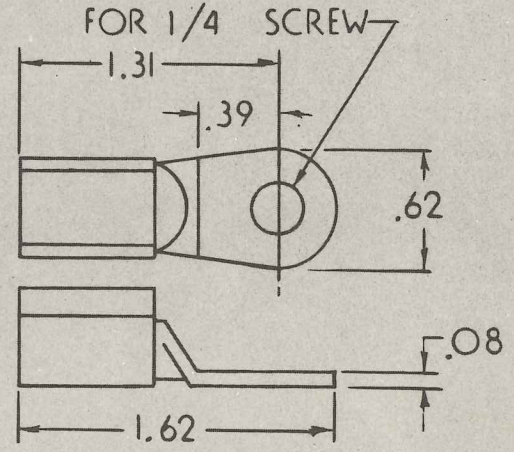
UL Listed for No. 2 AWG

Installing Tools: WT 115, WT 127G
11031, 21073, 11015 with 21019 dies

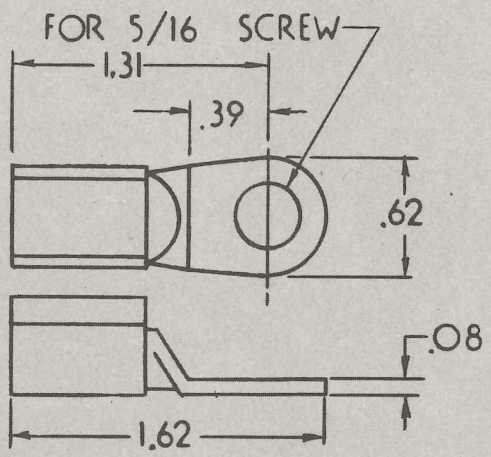
Complete tool listing, pages 64-67.



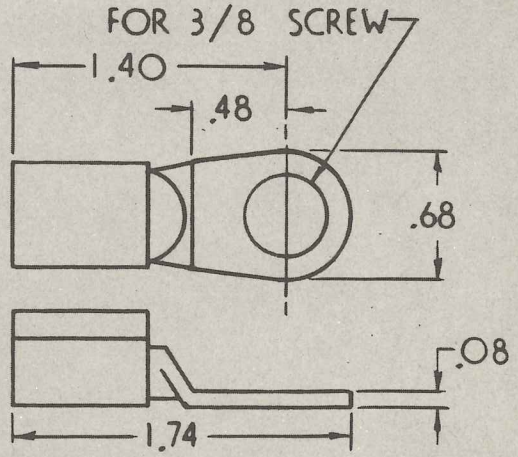
G 236



G 281



G 282



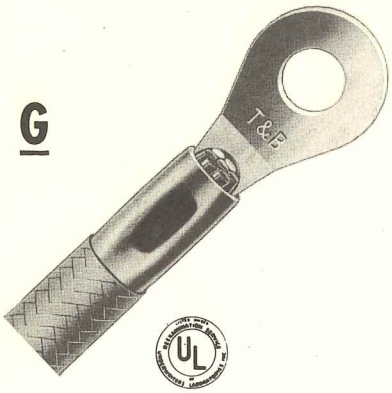
G 283

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

G



Wire Range

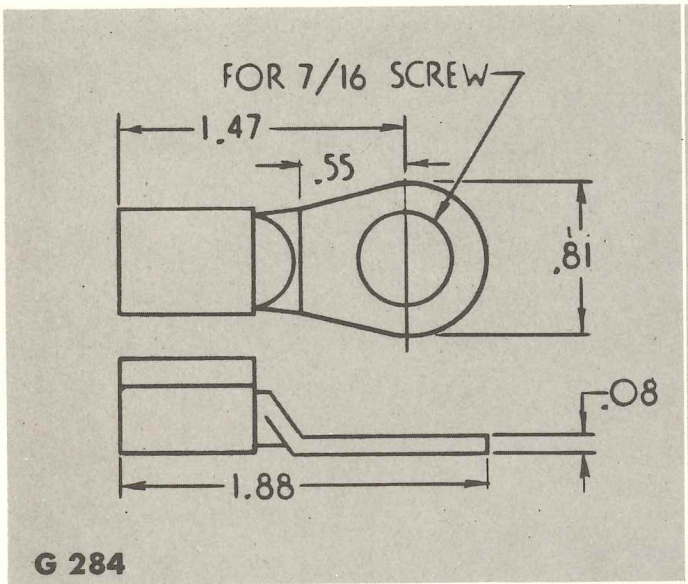
AWG No. 2

Any wire from .267" to .297" Diameter

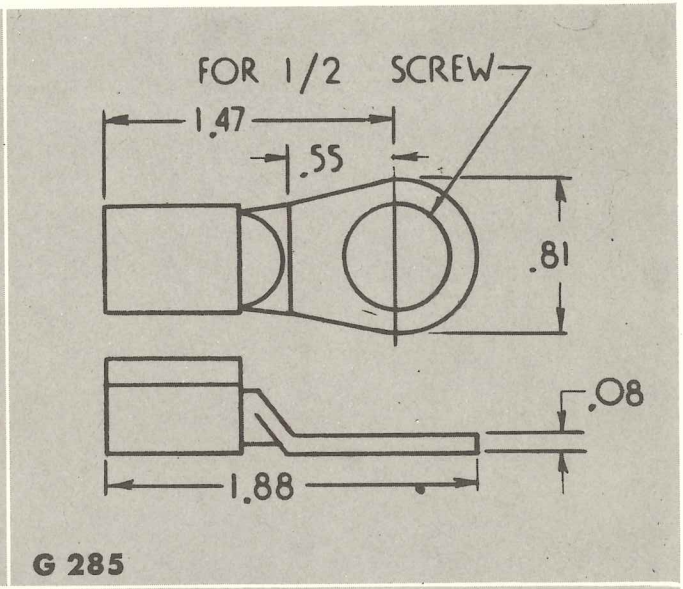
UL Listed for No. 2 AWG

Installing Tools: WT 115, WT 127G, 11031, 21073, 11015 with 21019 dies

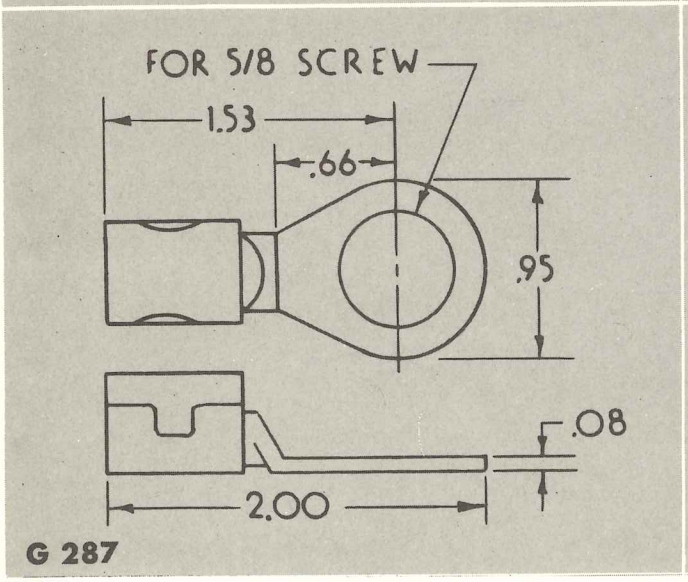
Complete tool listing, pages 64-67.



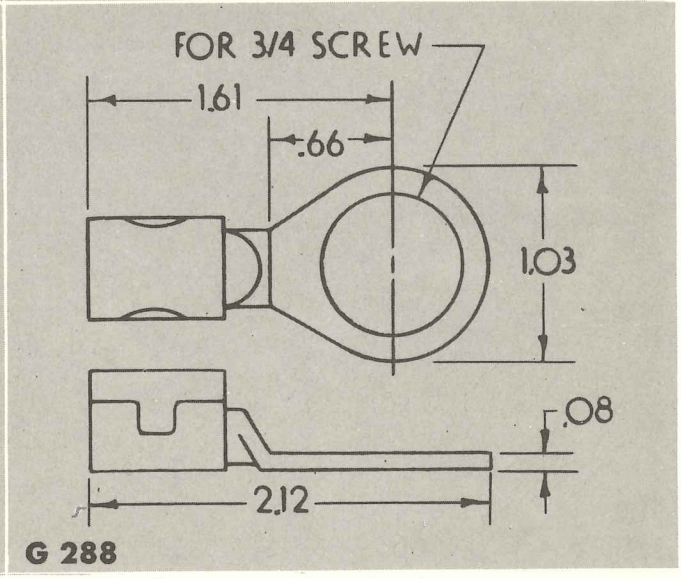
G 284



G 285



G 287



G 288

Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range

AWG No. 1

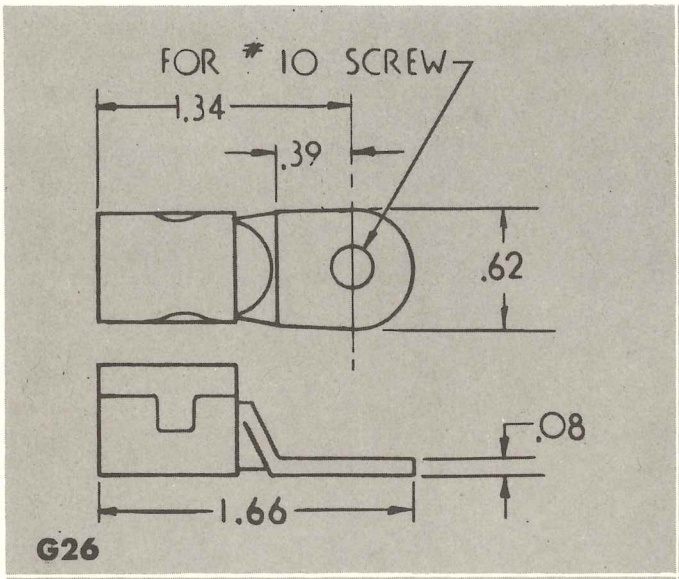
Any wire from .298" to .355" Diameter

UL Listed for No. 1 AWG

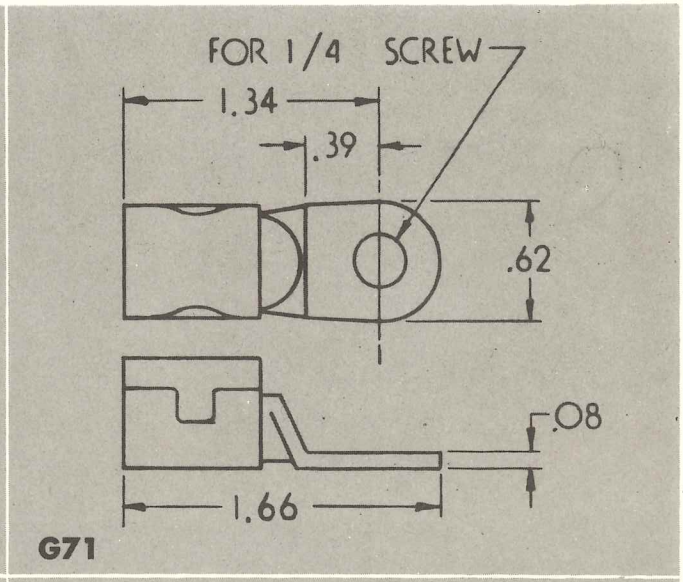
Installing Tools: WT115, WT127G, 11031, 21073, 11015 with 21019 dies

Complete tool listing, pages 64-67.

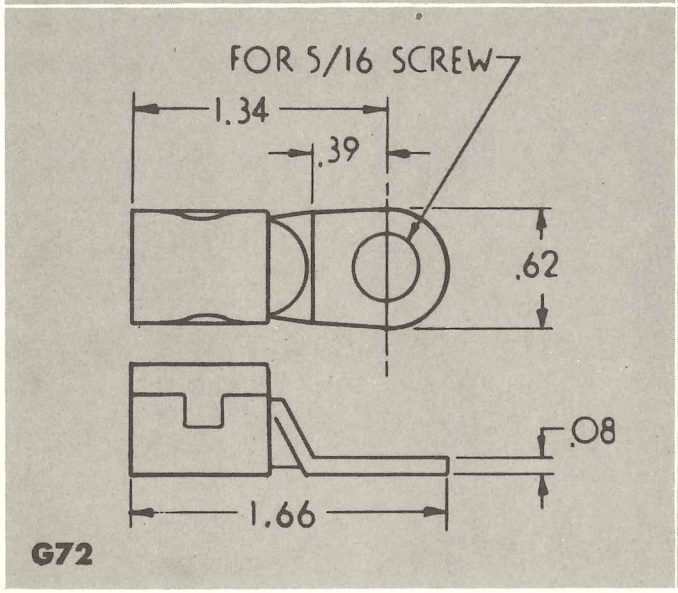
G



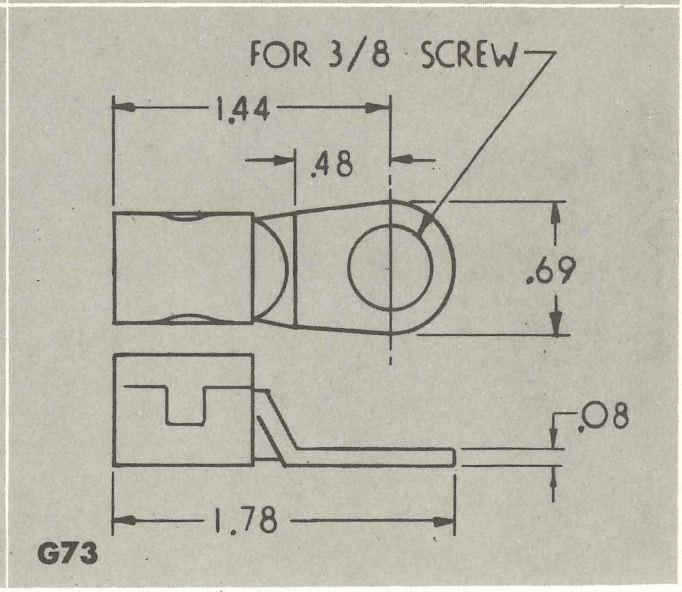
G26



G71



G72



G73

Improved manufacturing methods may cause slight variations in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

G

Wire Range

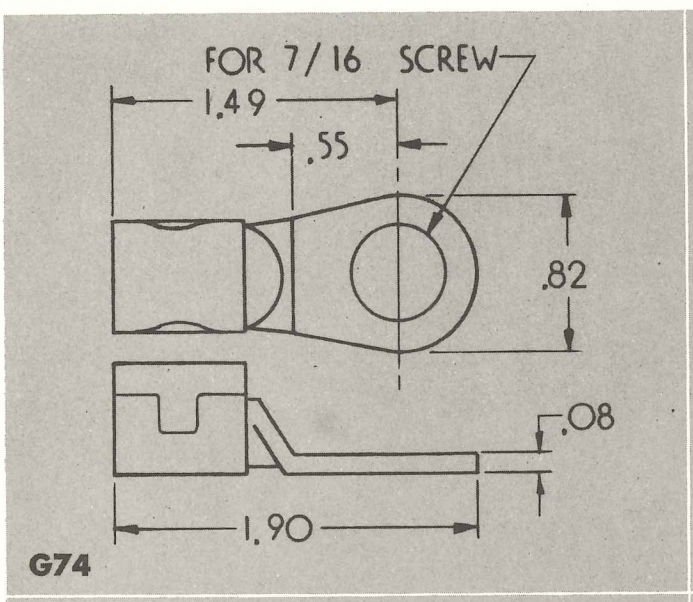
AWG No. 1

Any wire from .298" to .355" Diameter

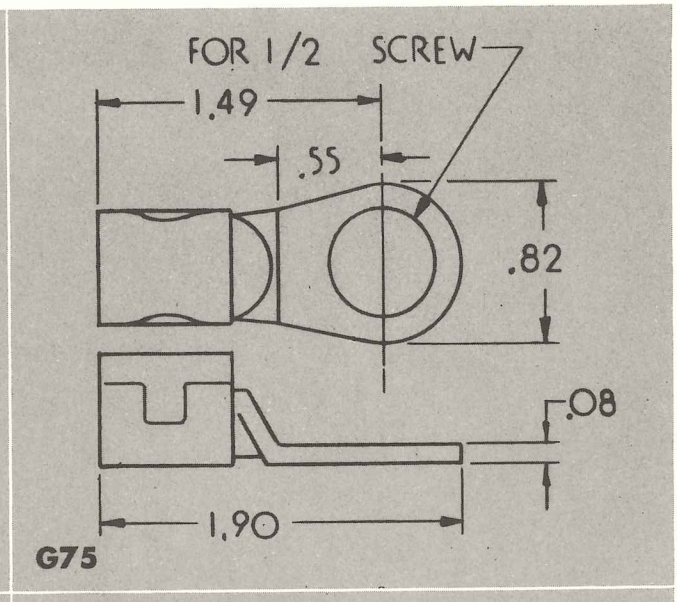
UL Listed for No. 1 AWG

Installing Tools: WT115, WT127G, 11031, 21073, 11015 with 21019 dies

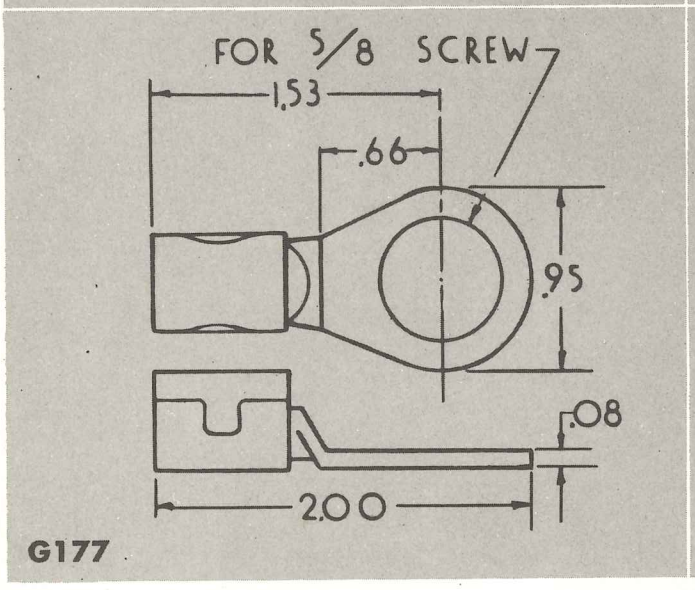
Complete tool listing, pages 64-67.



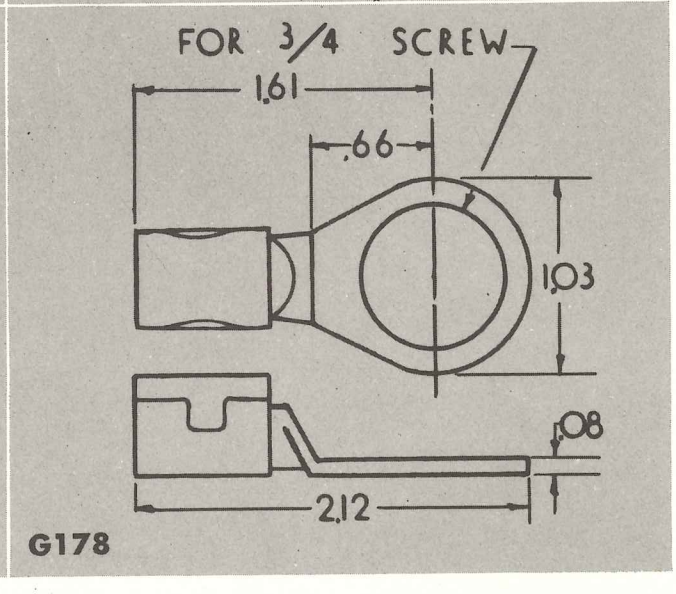
G74



G75



G177



G178

Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range

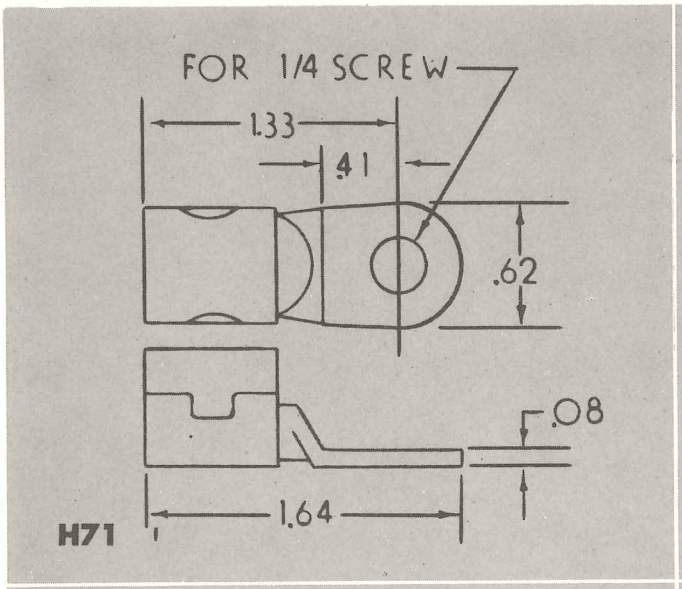
AWG 1/0

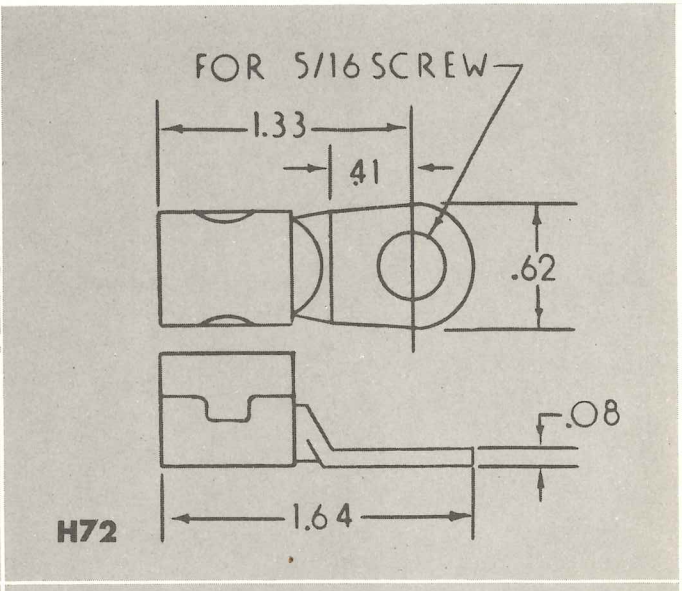
Any wire from .351" to .390" Diameter

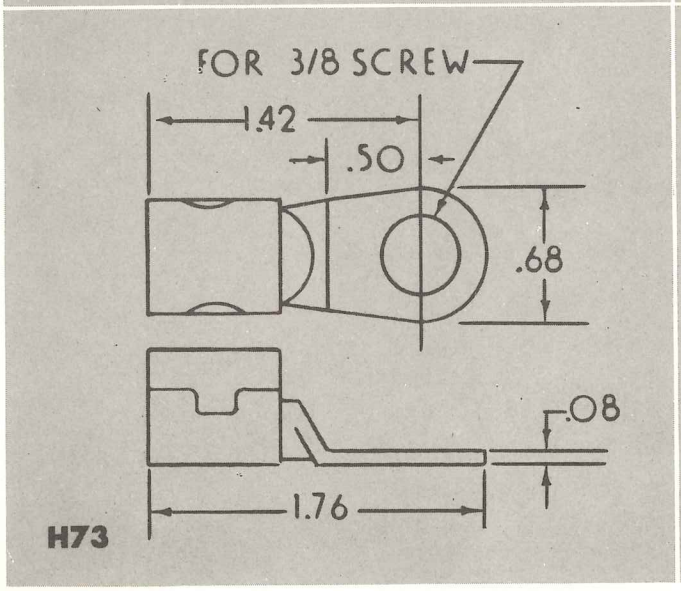
UL Listed for 1/O AWG

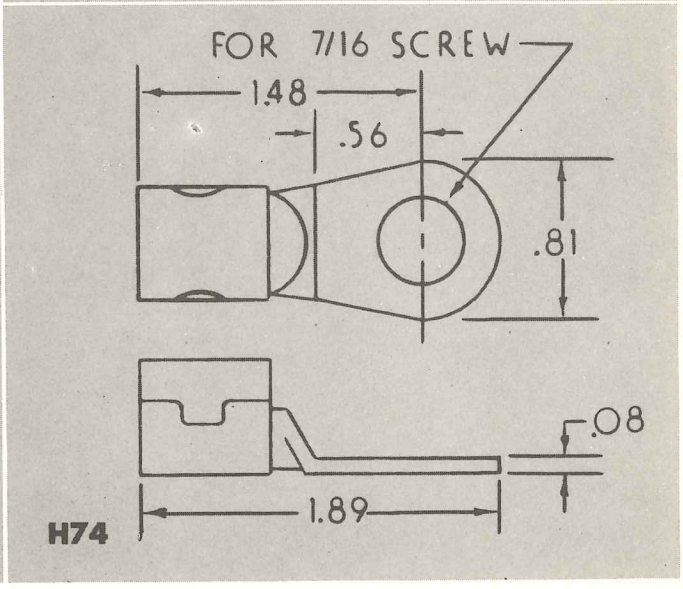
Installing Tools: WT 127H, 11031, 21073, 11015 with 21019 dies

Complete tool listing, pages 64-67.







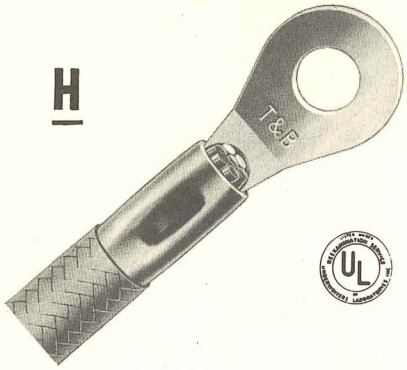


Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

H



Wire Range

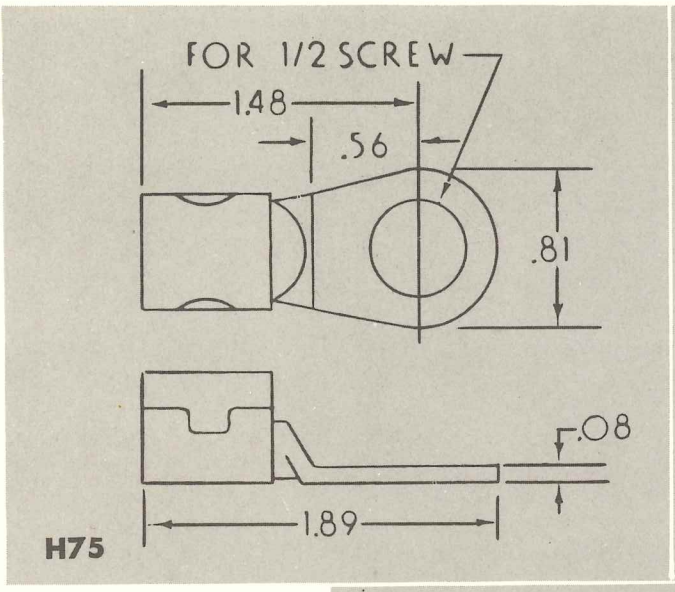
AWG. 1/0

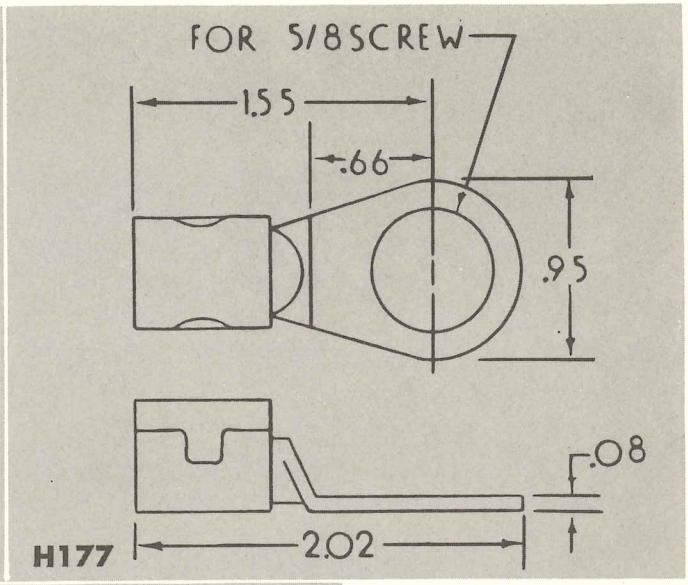
Any wire from .351" to .390" Diameter

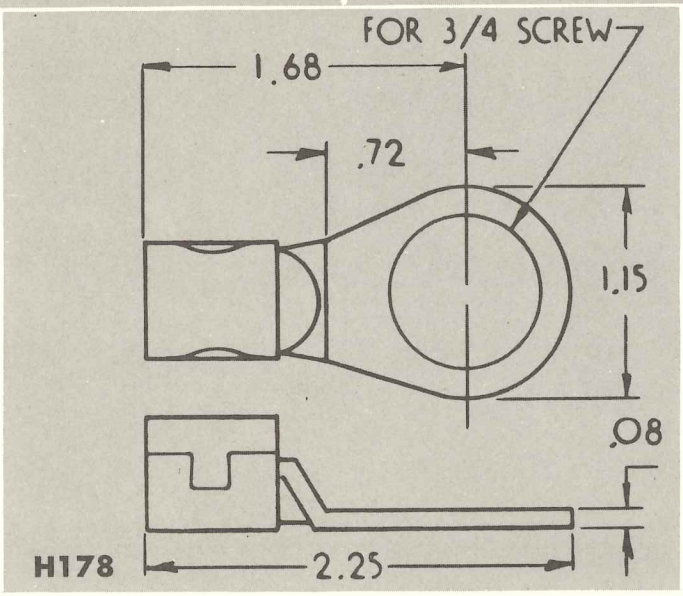
UL Listed for 1/O AWG

Installing Tools: WT127H, 11031, 21073, 11015 with 21019 dies

Complete tool listing, pages 64-67.







Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range

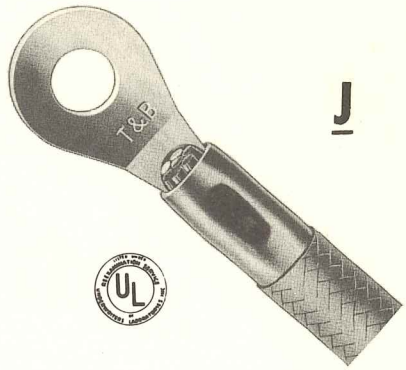
AWG 2/0

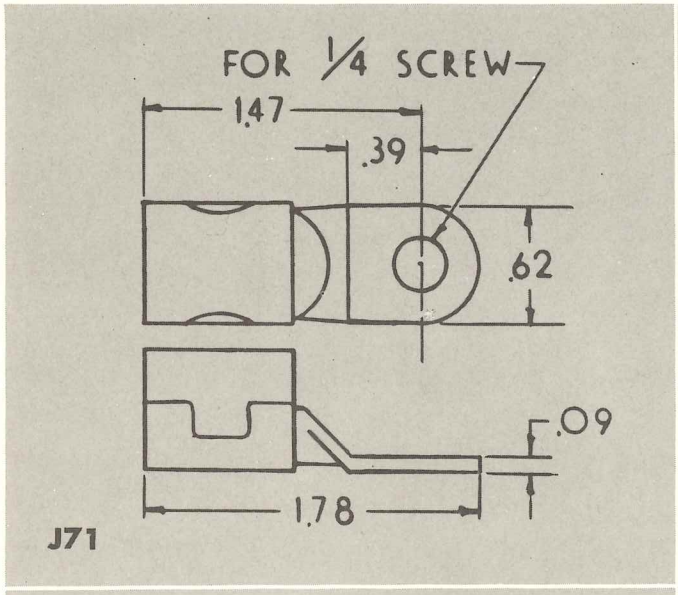
Any wire from .379" to .440" Diameter

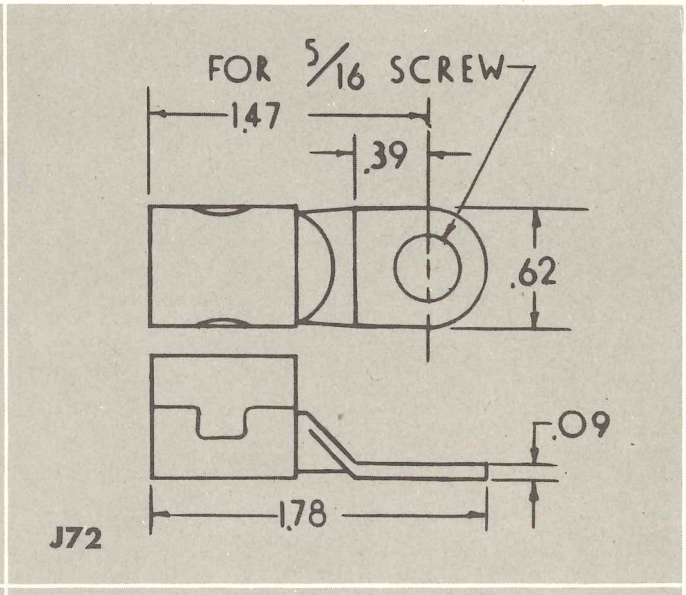
UL Listed for 2/0 AWG

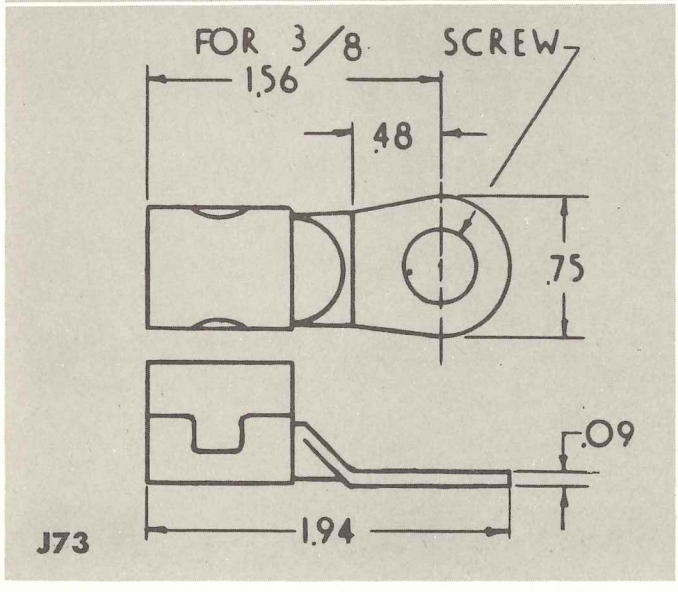
Installing Tools: WT127J, 11031, 21073, 11015 with 21019 dies

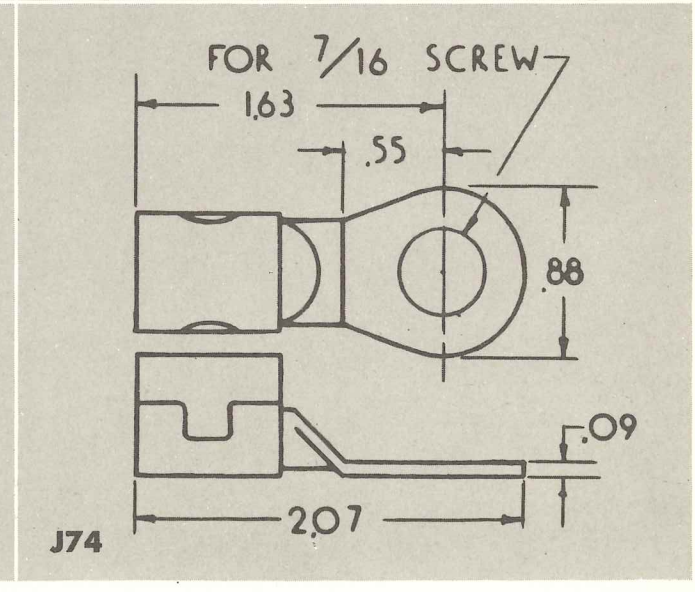
Complete tool listing, pages 64-67.











Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

J

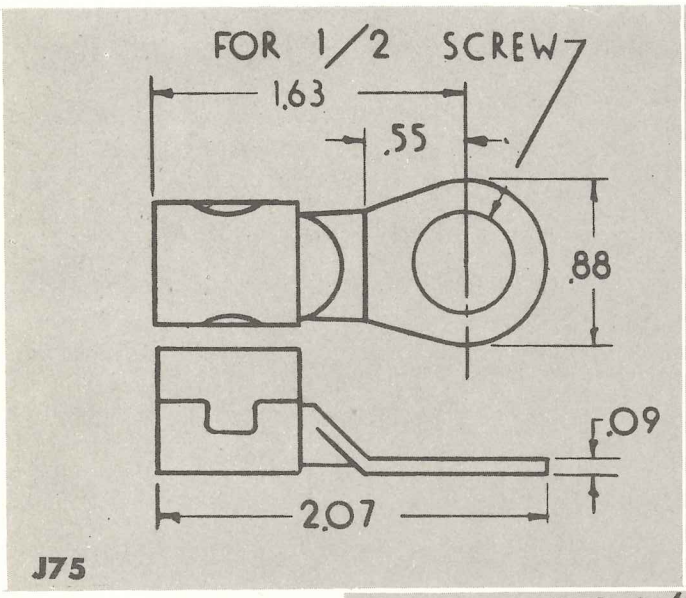
Wire Range

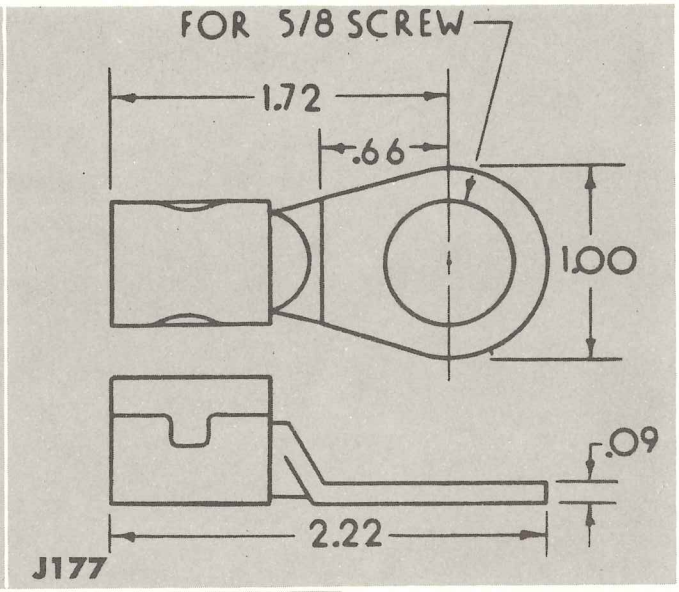
AWG 2/0

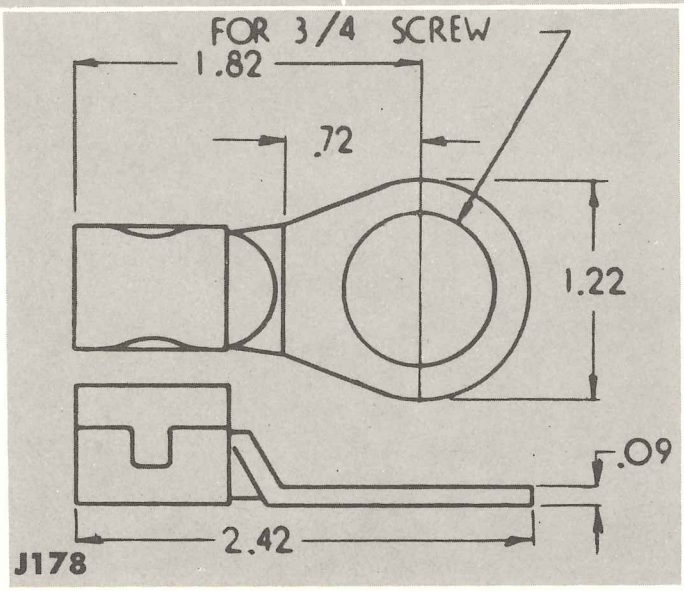
Any wire from .379" to .440" Diameter

UL Listed for 2/0 AWG

Installing Tools: WT127J, 11031, 21073, 11015 with 21019 dies.
Complete tool listing, pages 64-67.







Improved manufacturing methods may cause slight changes in dimensions shown.

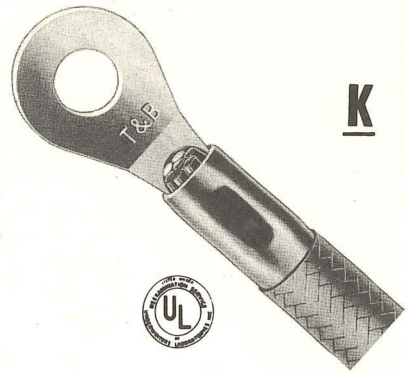
Wire Range
AWG 3/0
Any wire from .431" to .500" Diameter

UL Listed for 3/0 AWG

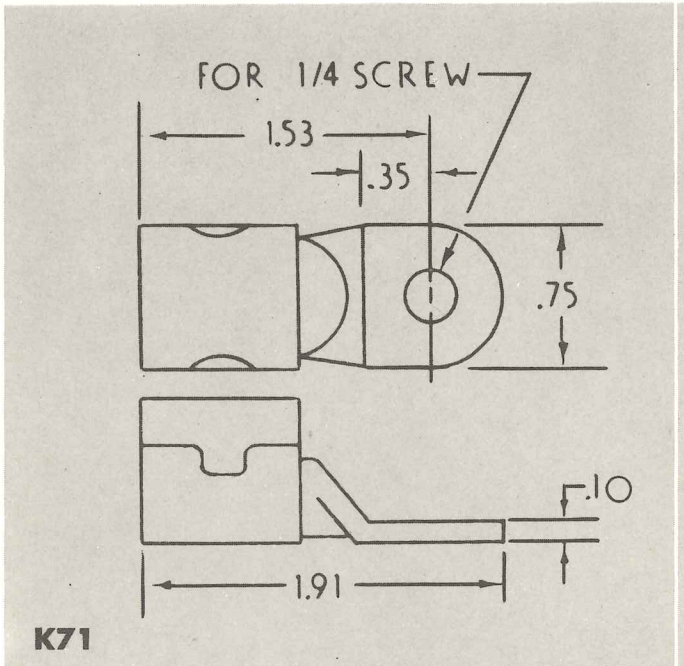
Installing Tools: WT127K, 11031, 21073,

11015 with 21019 dies

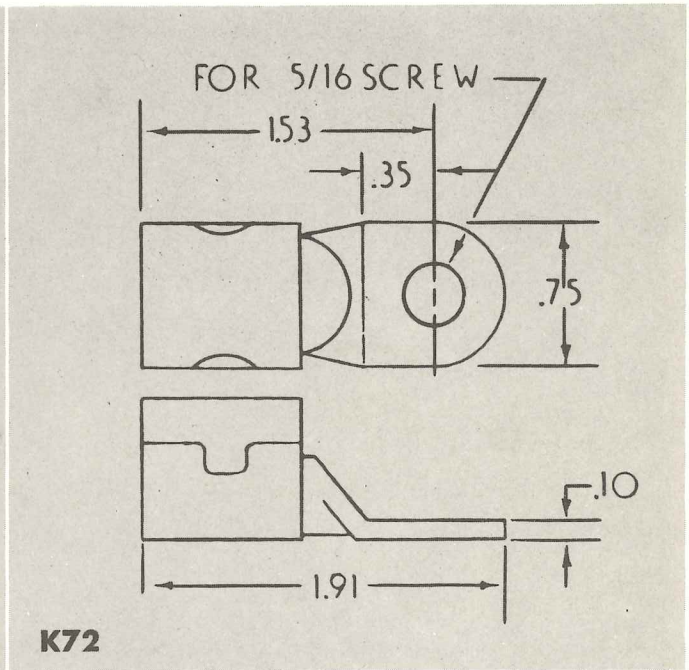
Complete tool listing, pages 64-67



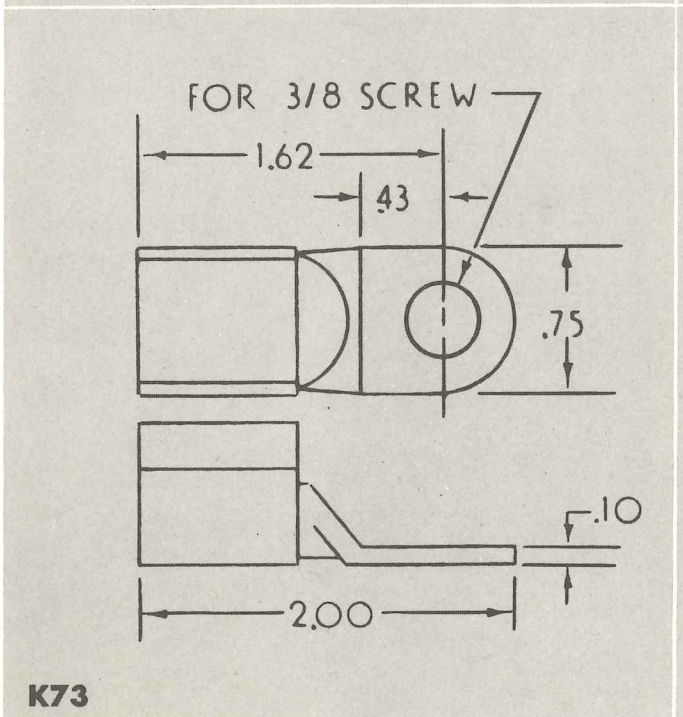
K



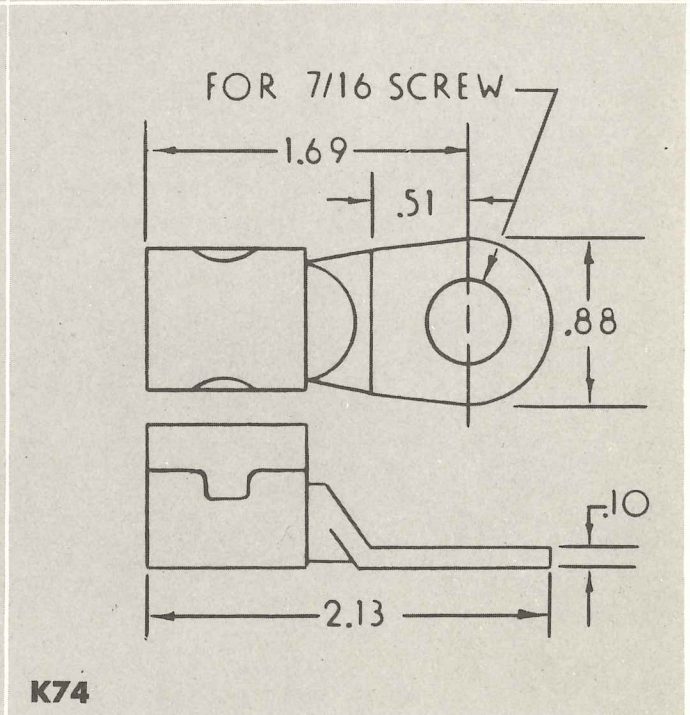
K71



K72



K73



K74

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

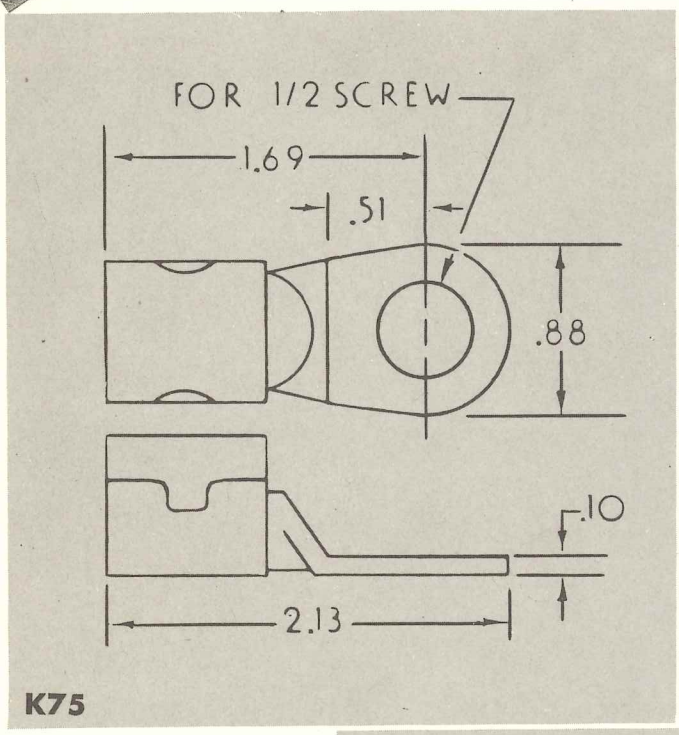
K

Wire Range
AWG 3/0
Any wire from .431" to .500" Diameter

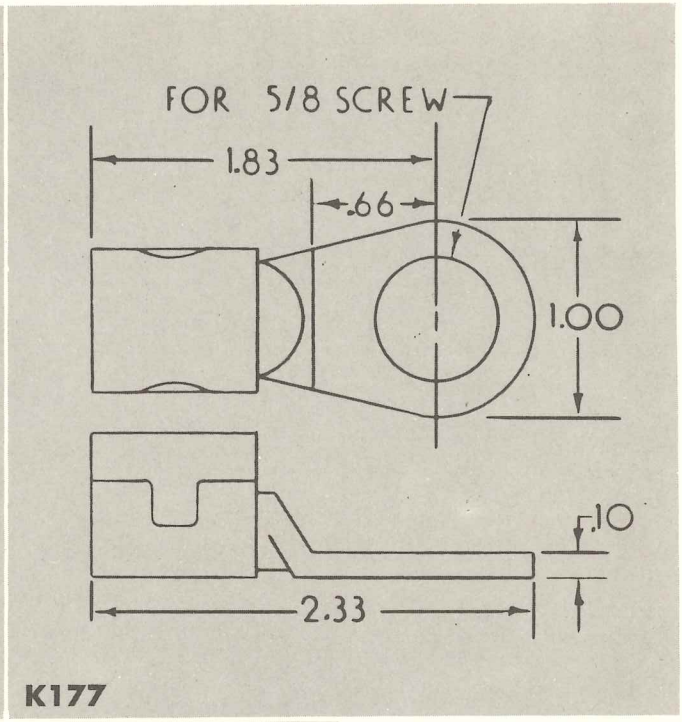
UL Listed for 3/0 AWG

Installing Tools: WT 127K, 11031, 21073, 11015 with 21019 dies

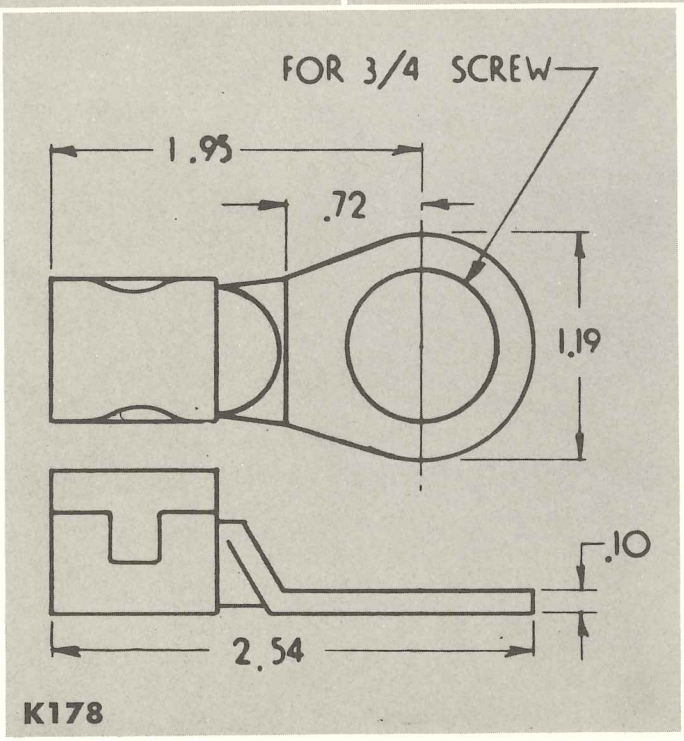
Complete tool listing, pages 64-67.



K75



K177



K178

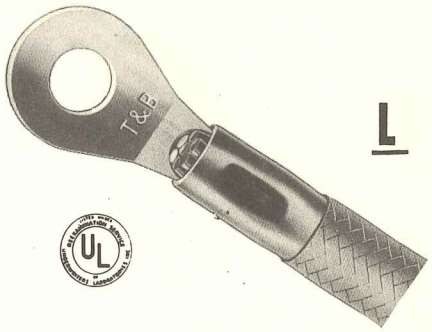
Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range
AWG 4/0
Any wire from .491" to .557" Diameter

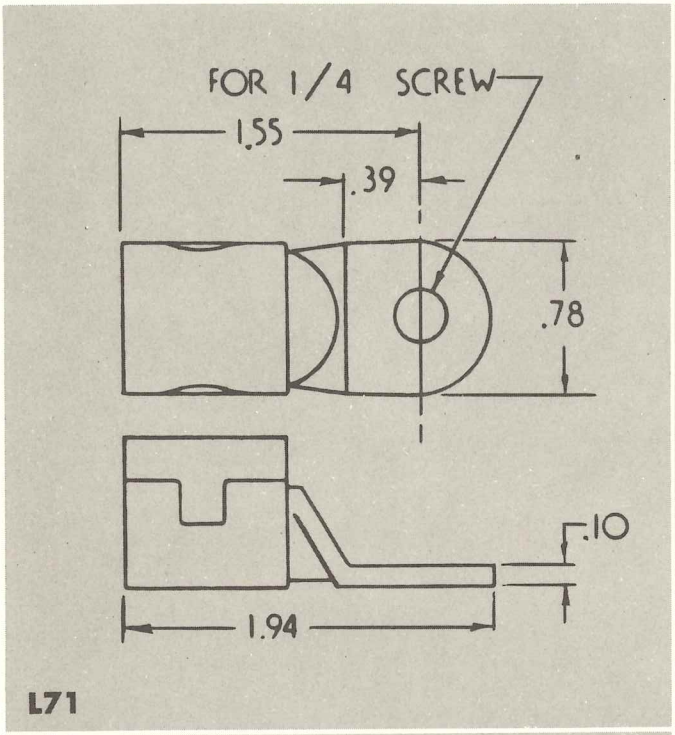
UL Listed for 4/0 AWG

Installing Tools: WT 127L, 11031, 21073, 11015 with 21019 dies

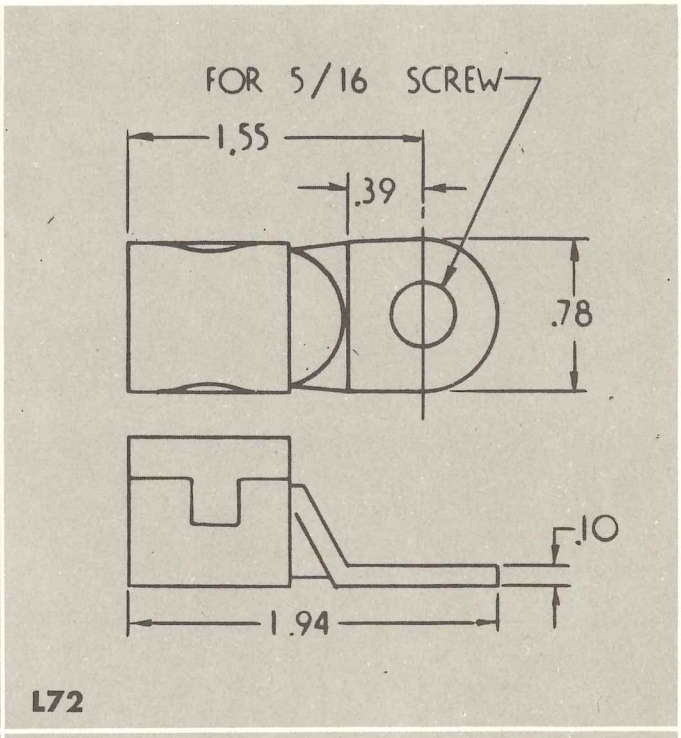
Complete tool listing, pages 64-67.



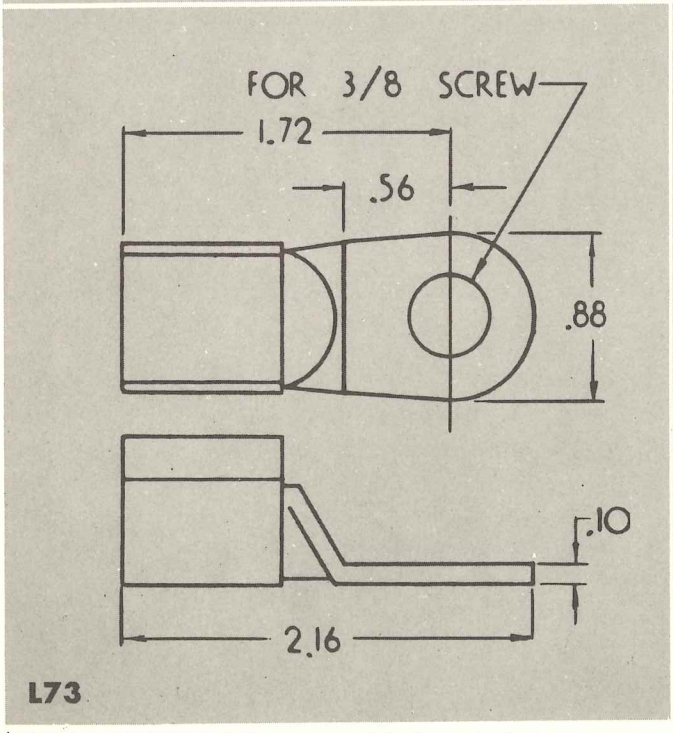
L



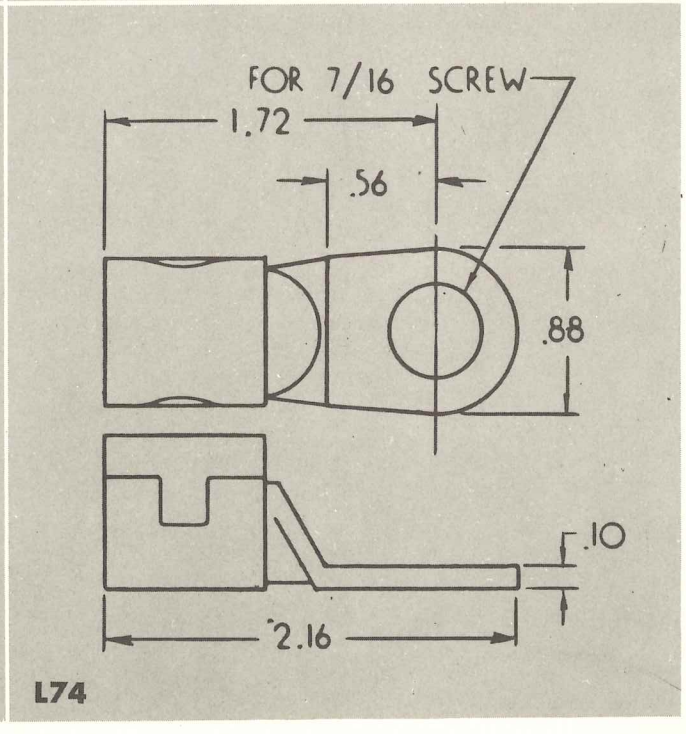
L71



L72



L73

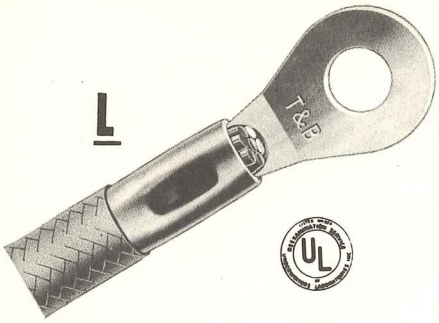


L74

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

T&B ENGINEERED

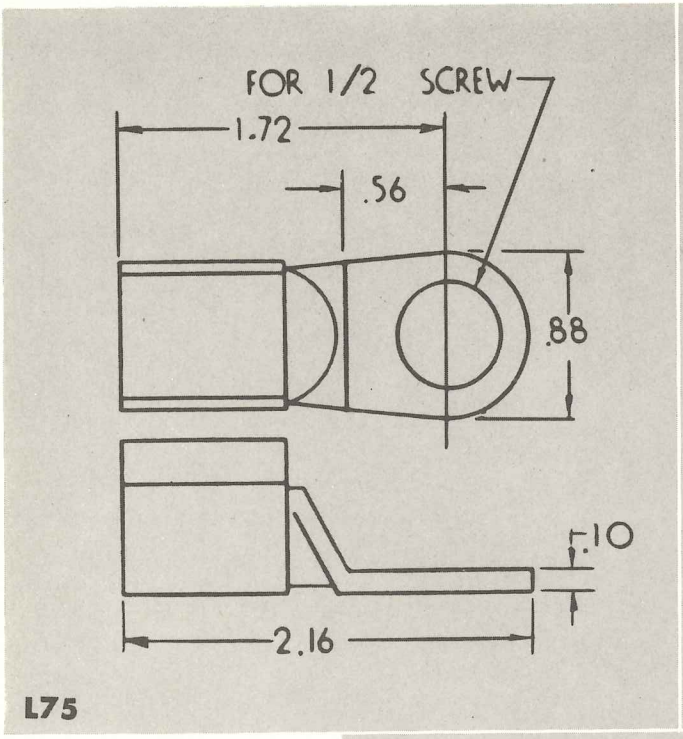


Wire Range
AWG 4/0
Any wire from .491" to .557" Diameter

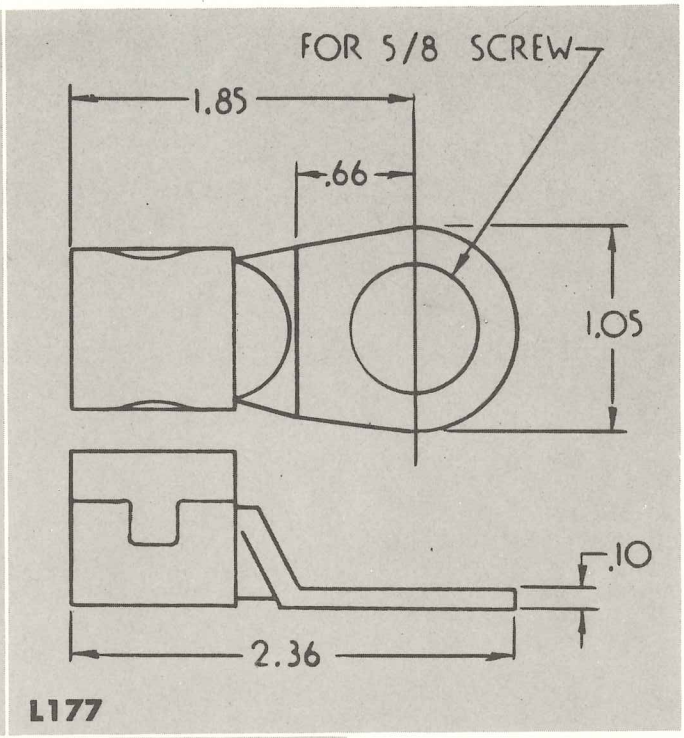
UL Listed for 4/0 AWG

Installing Tools: WT 127L, 11031, 21073, 11015 with 21019 dies

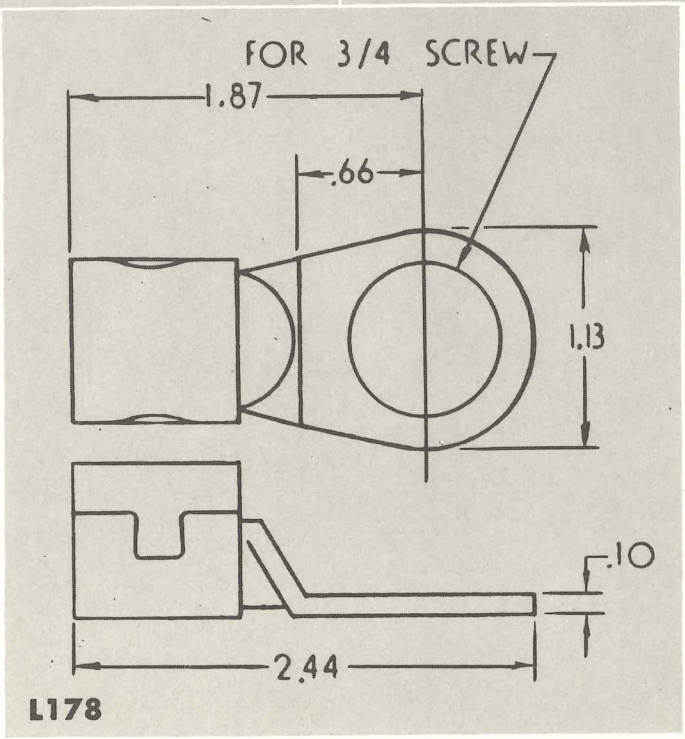
Complete tool listing, pages 64-67.



L75



L177



L178

Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range
AWG 250 MCM
Any wire from .549" to .622" Diameter

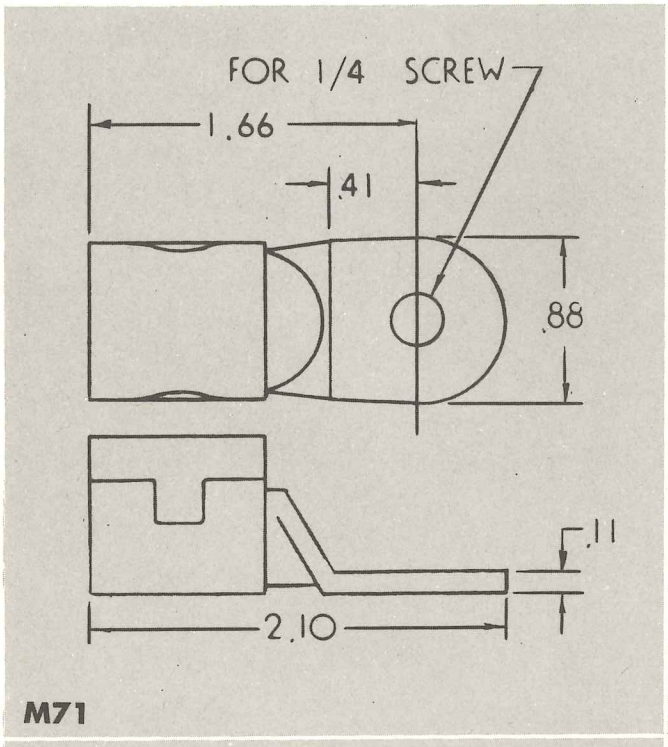
UL Listed for 250 MCM AWG

Installing Tools: WT 127M, 11031, 21073,

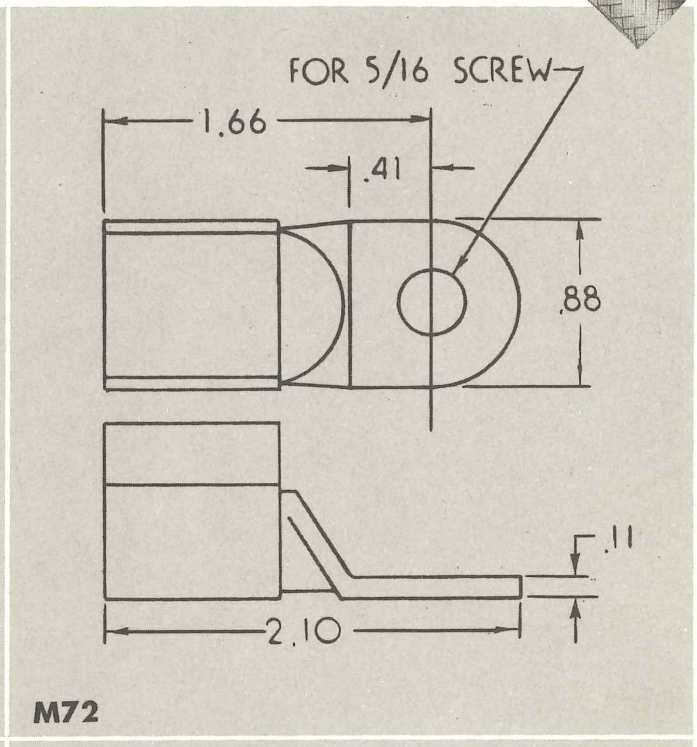
11015 with 21019 dies

Complete tool listing, pages 64-67.

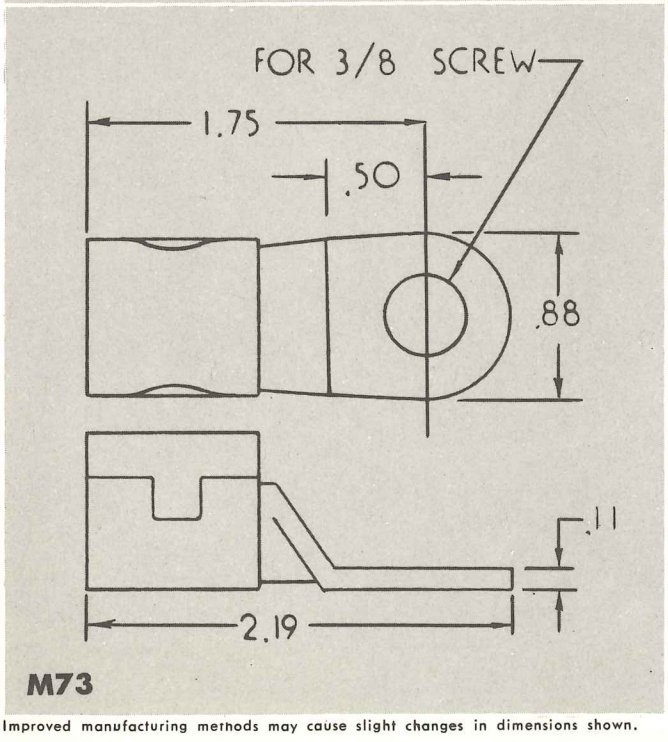
M



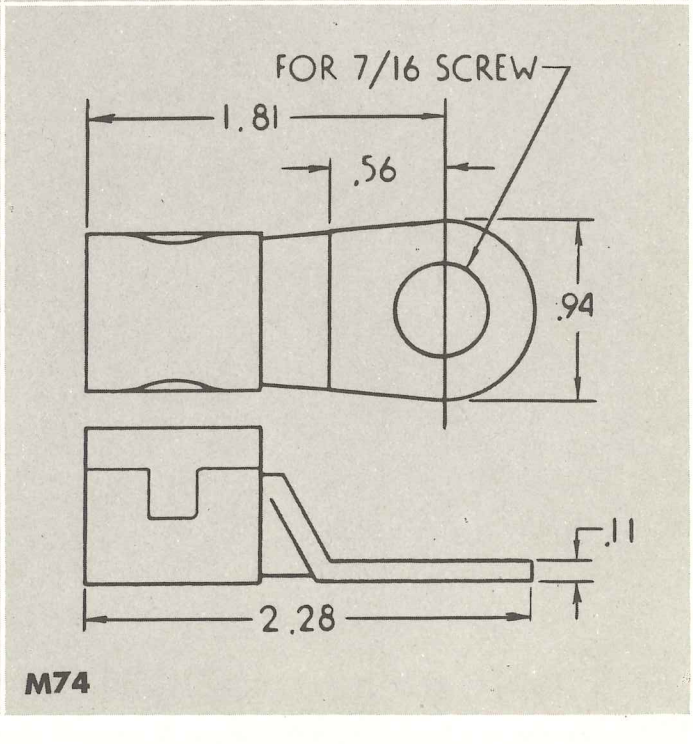
M71



M72



M73



M74

Improved manufacturing methods may cause slight changes in dimensions shown.

STA-KON TERMINALS

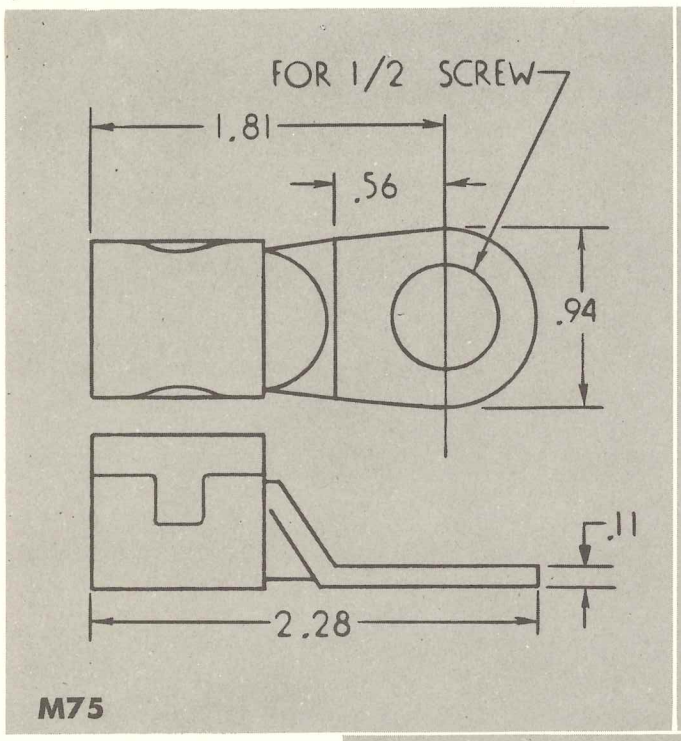
T&B ENGINEERED

Wire Range
AWG 250 MCM
Any wire from .549" to .622" Diameter

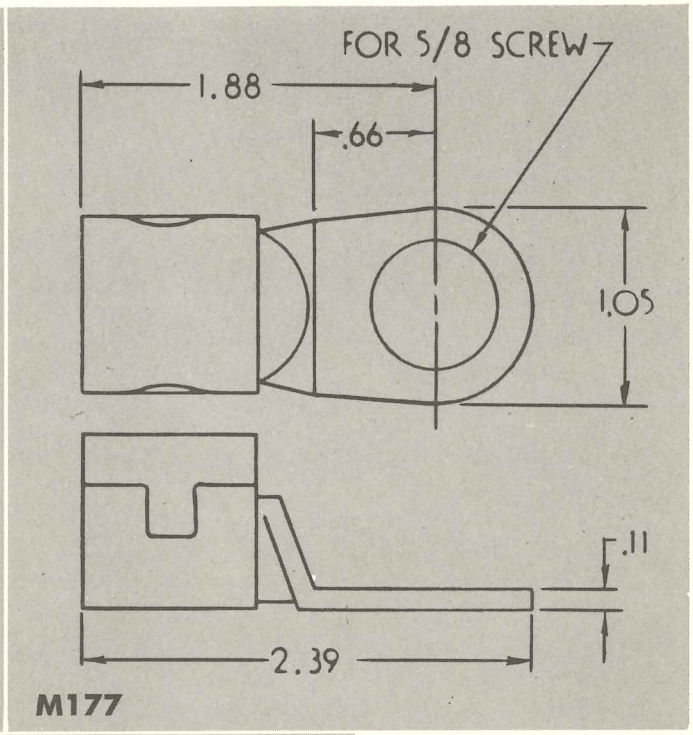
UL Listed for 250 MCM AWG

Installing Tools: WT 127M, 11031, 21073, 11015 with 21019 dies

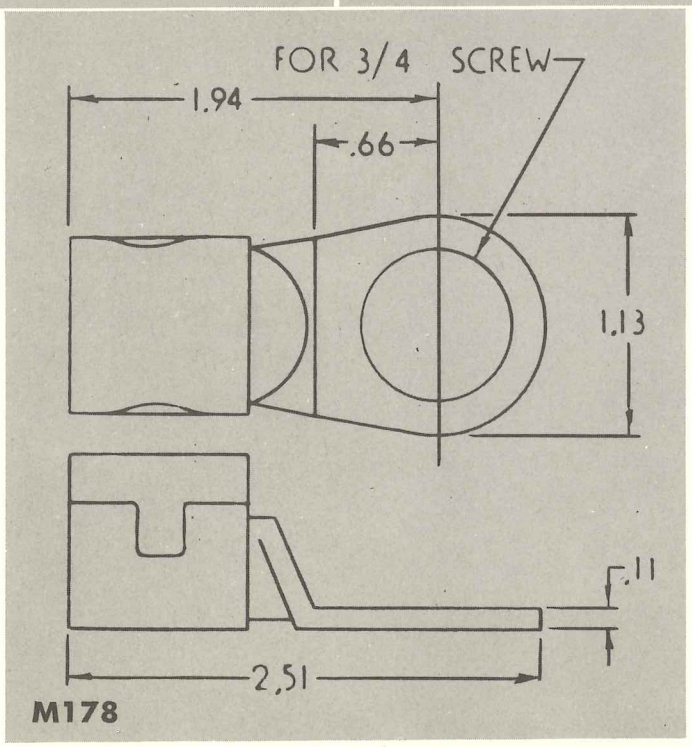
Complete tool listing, pages 64-67.



M75



M177



M178

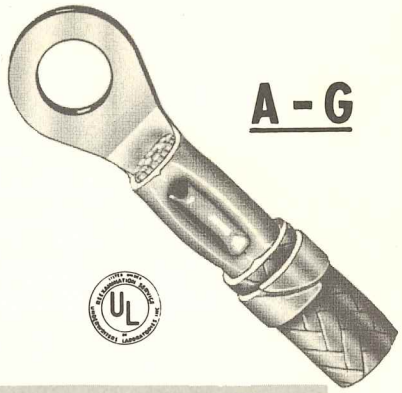
Improved manufacturing methods may cause slight changes in dimensions shown.

Wire Range
AWG No. 22—18
Aircraft AN-22—AN-18
Any wire from .025" to .052" Diameter
Insulation Grip .078" to .150"

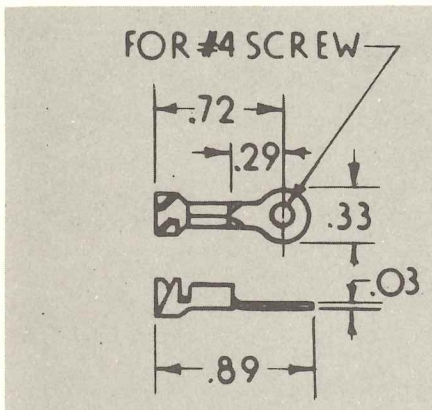
UL Listed for No. 18 AWG

Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

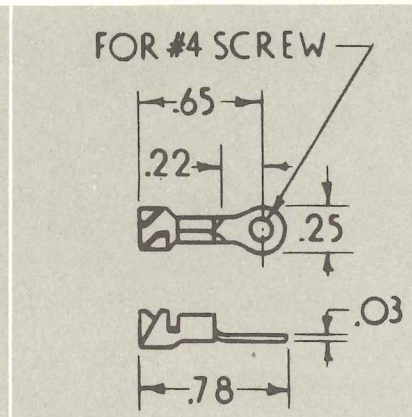
Complete tool listing, pages 64-67.



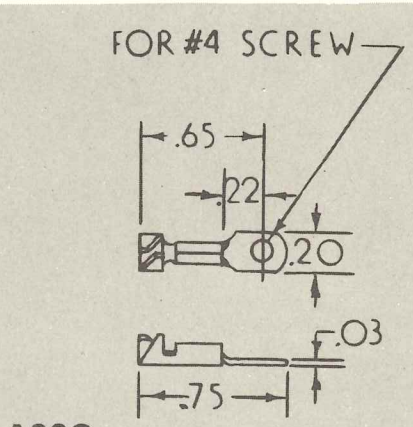
A-G



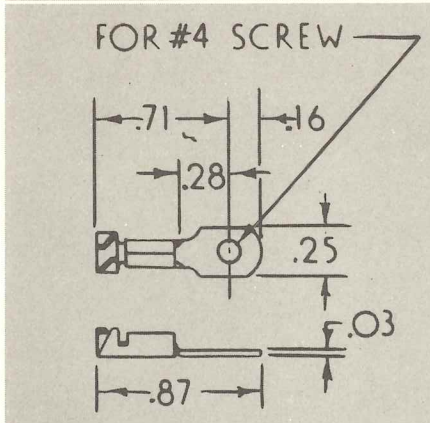
A7G



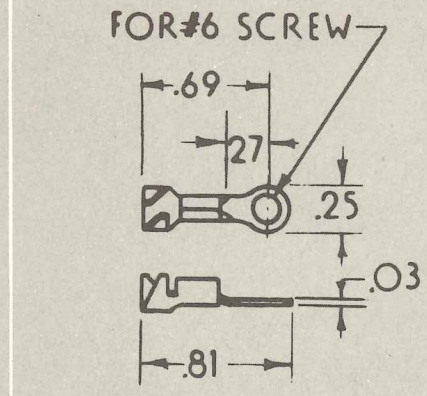
A132G



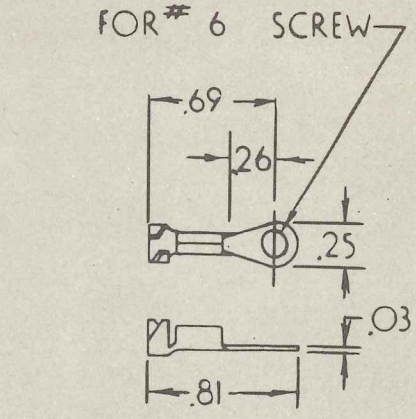
A88G



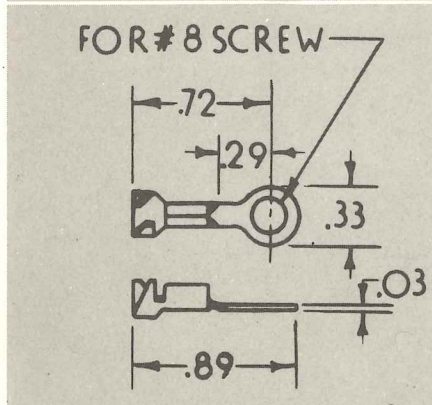
A20G



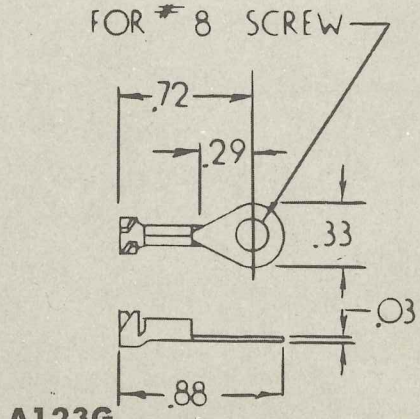
A85G (formerly A33G, A84G)



A122G



A86G (formerly A77G)



A123G

INSULATION GRIP STA-KON TERMINALS

T&B ENGINEERED

A-G

Wire Range

AWG No. 22—18

Aircraft AN-22-AN-18

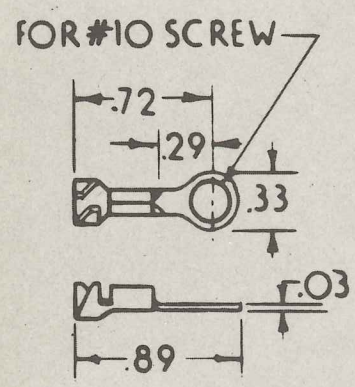
Any wire from .025" to .052" Diameter

Insulation Grip .078" to .150"

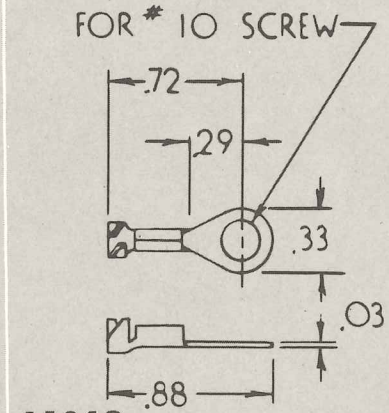
UL Listed for No. 18 AWG

Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

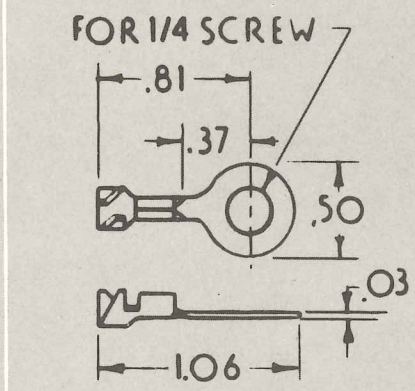
Complete tool listing, pages 64-67.



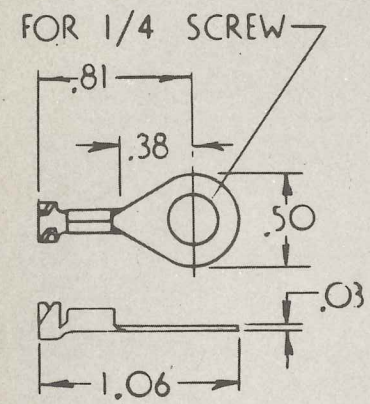
A87G (formerly A36G)



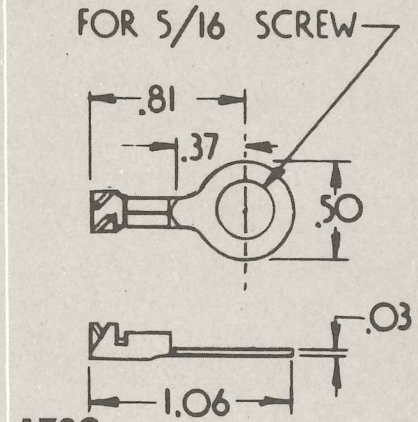
A124G



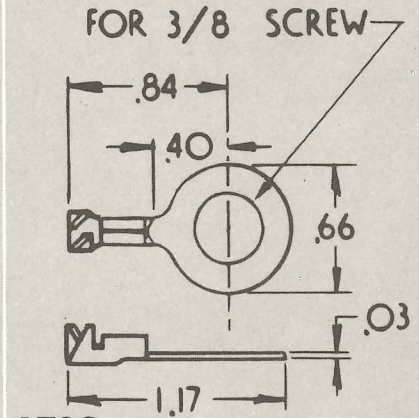
A71G



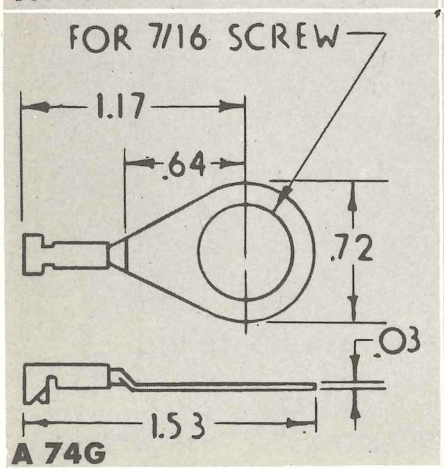
A126G



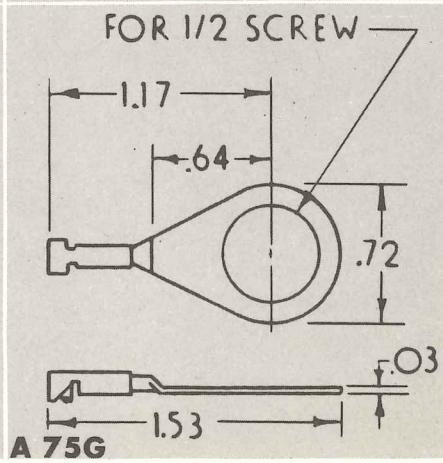
A72G



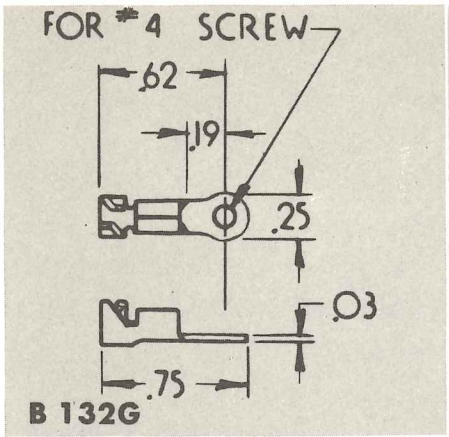
A73G



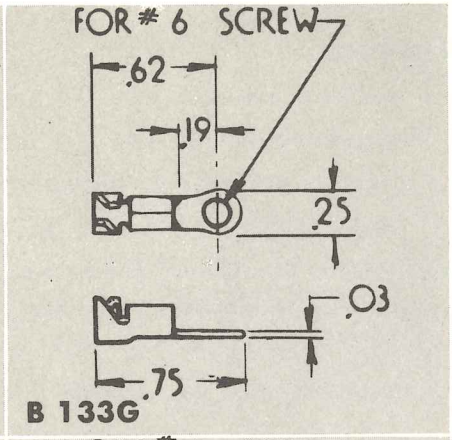
A 74G



A 75G



B 132G



B 133G

Wire Range

B-G

AWG No. 16—14

Aircraft AN-16, AN-14

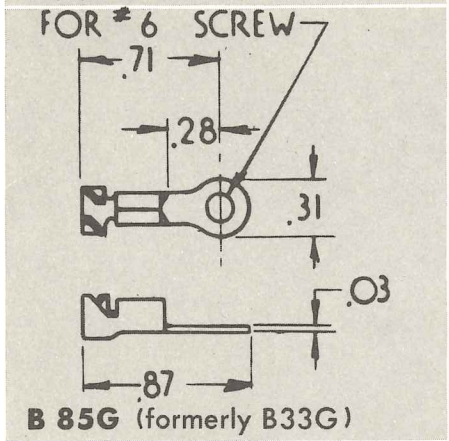
Any wire from .032" to .080" Diameter

Insulation Grip .100" to .187"

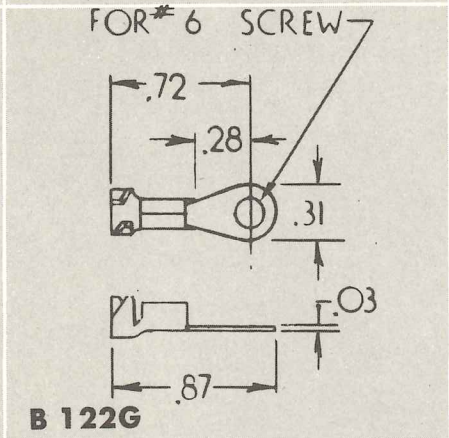
UL Listed for No. 18—14 AWG

Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

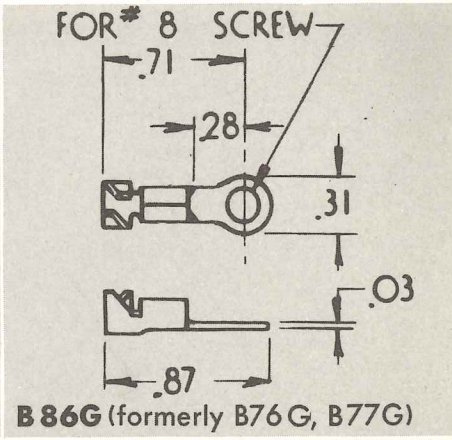
Complete tool listing, pages 64-67.



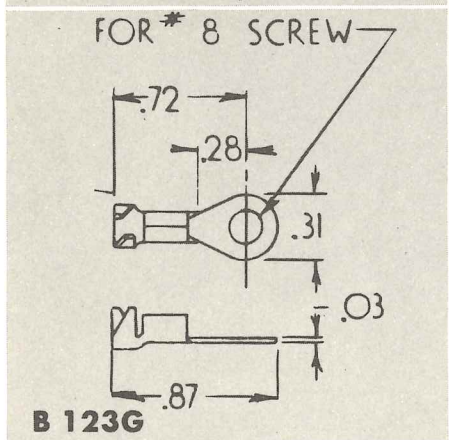
B 85G (formerly B33G)



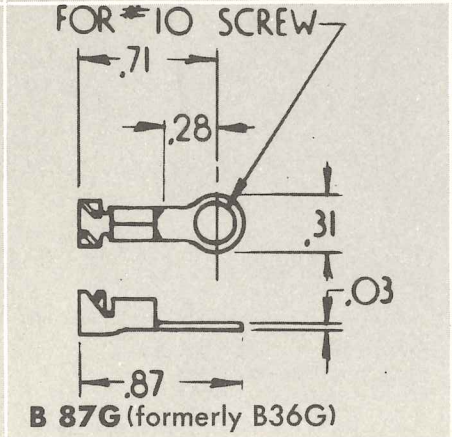
B 122G



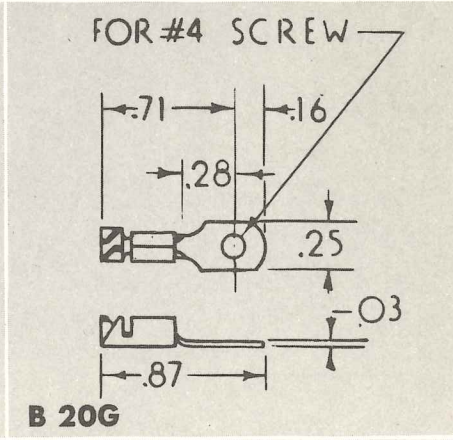
B 86G (formerly B76G, B77G)



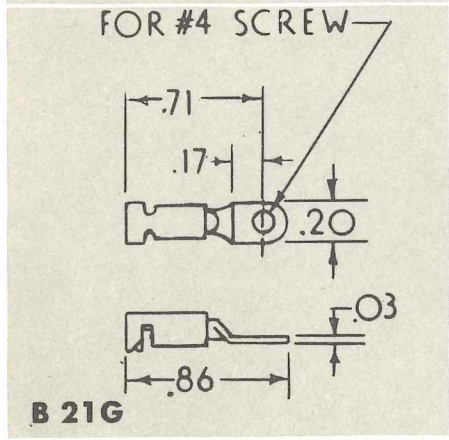
B 123G



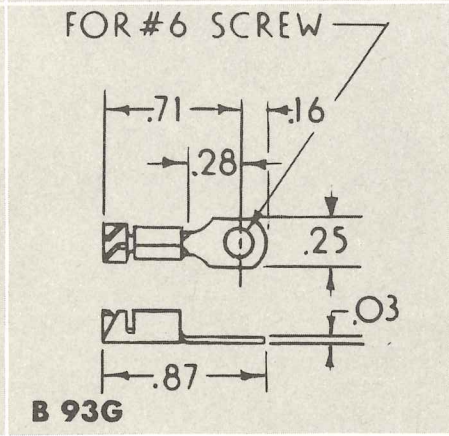
B 87G (formerly B36G)



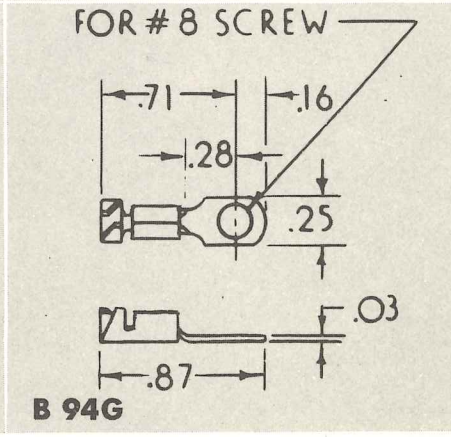
B 20G



B 21G



B 93G



B 94G

INSULATION GRIP STA-KON TERMINALS

T&B ENGINEERED

B-G

Wire Range

AWG No. 16—14

Aircraft AN-16, AN-14

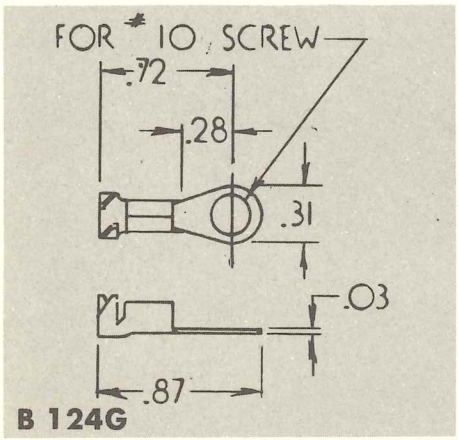
Any wire from .032" to .080" Diameter

Insulation Grip .100" to .187"

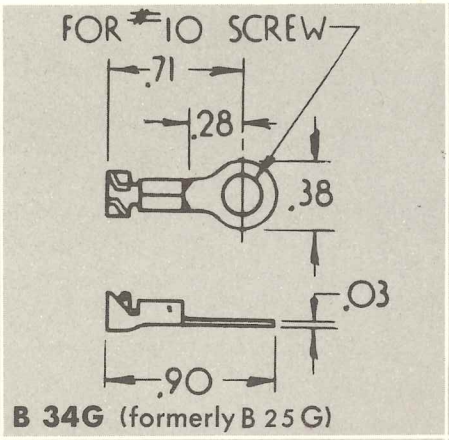
UL Listed for No. 18—14 AWG

Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

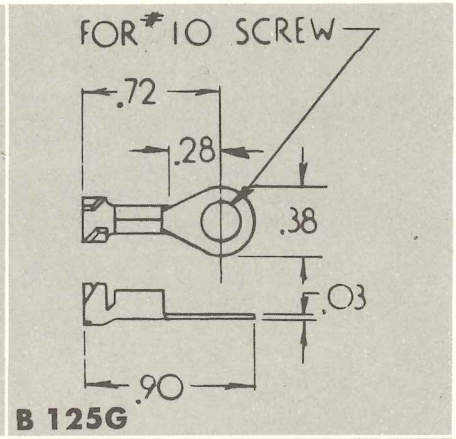
Complete tool listing, pages 64-67.



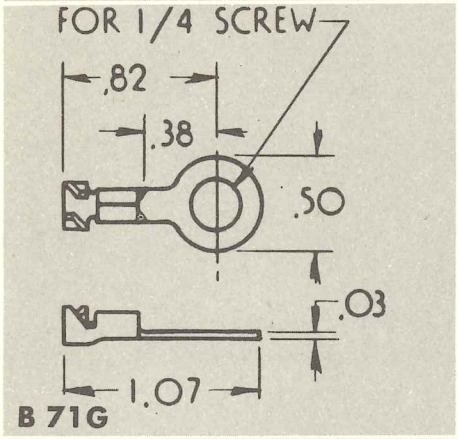
B 124G



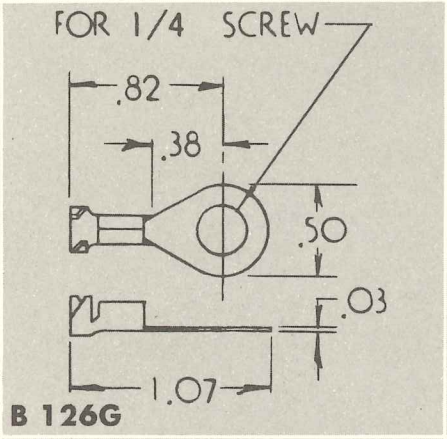
B 34G (formerly B 25 G)



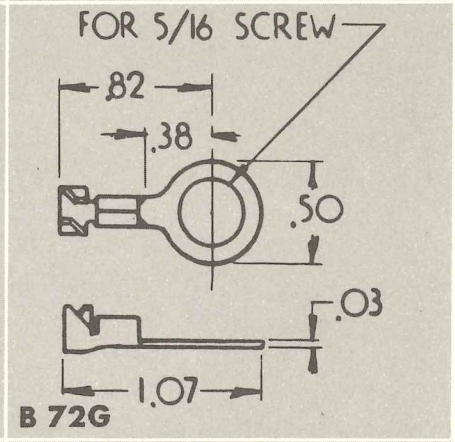
B 125G



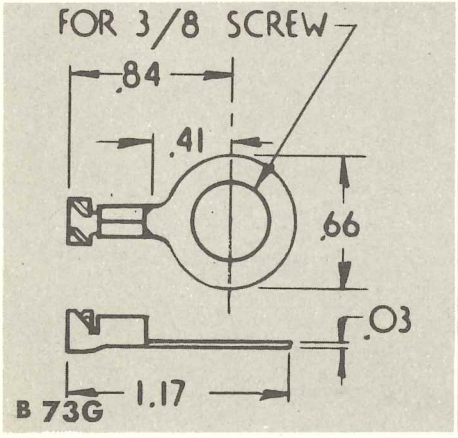
B 71G



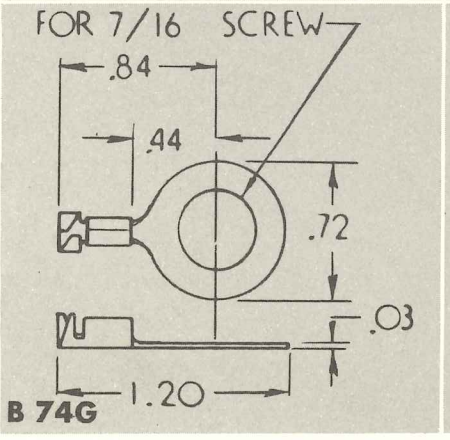
B 126G



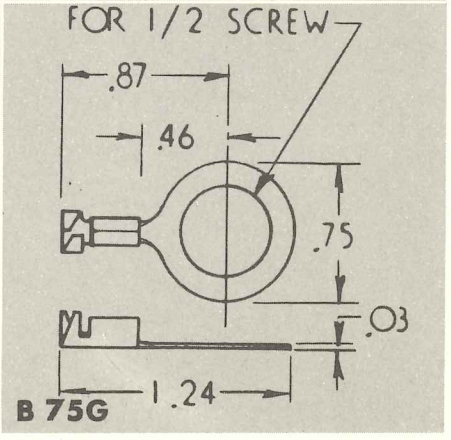
B 72G



B 73G



B 74G



B 75G

FORKED TONGUE STA-KON TERMINALS

Wire Range

AWG No. 22—18

Aircraft AN-22, AN-18

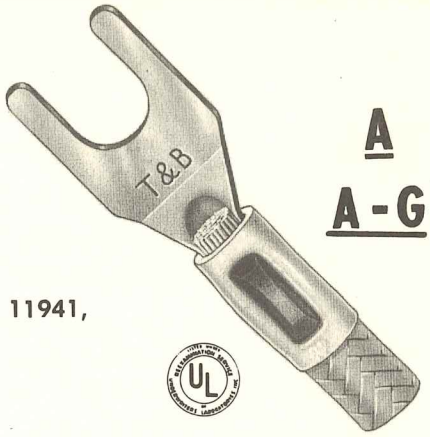
Any wire from .025" to .052" Diameter

Insulation Grip .078" to .150"

UL Listed for No. 18 AWG

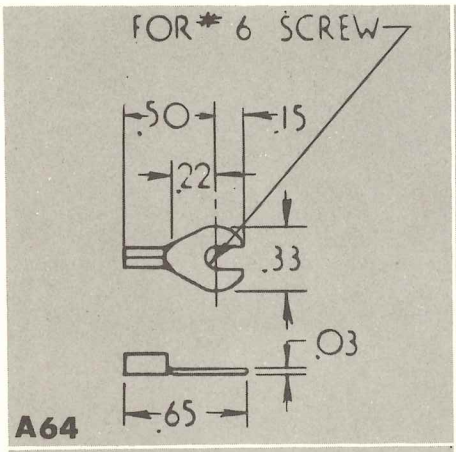
Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

Complete tool listing, pages 64-67.

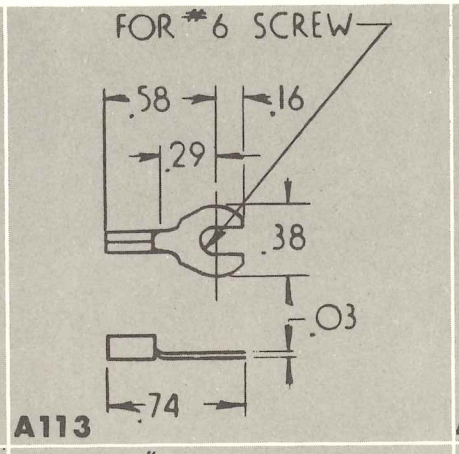


A

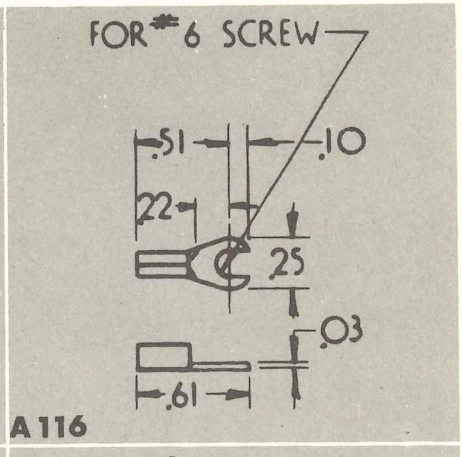
A-G



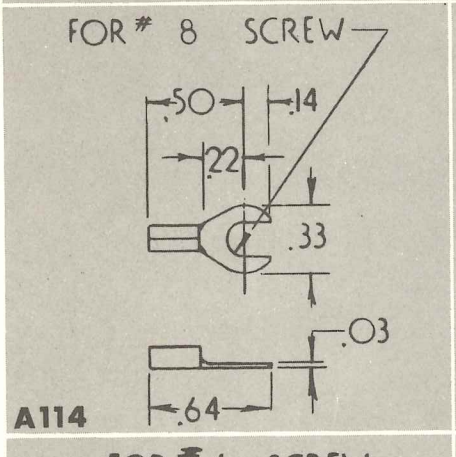
A64



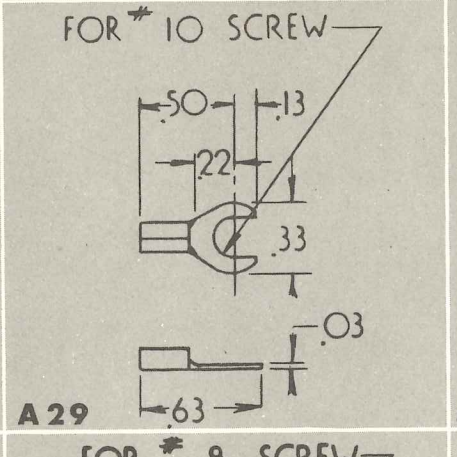
A113



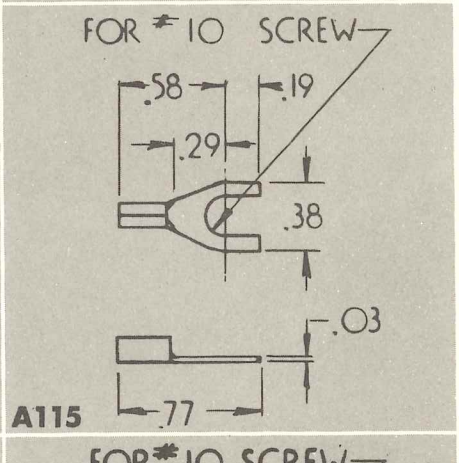
A116



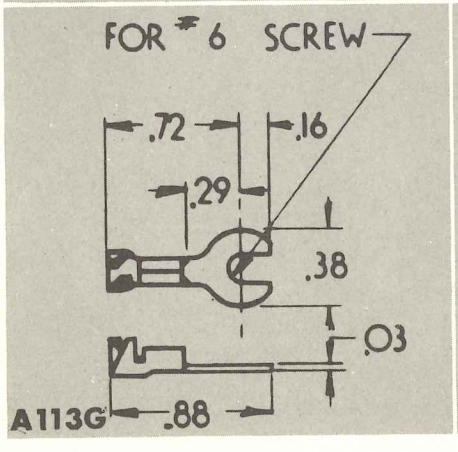
A114



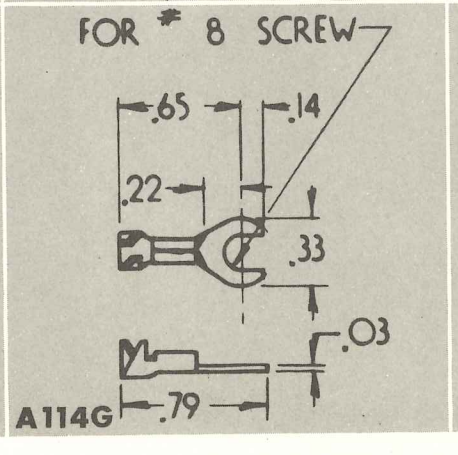
A29



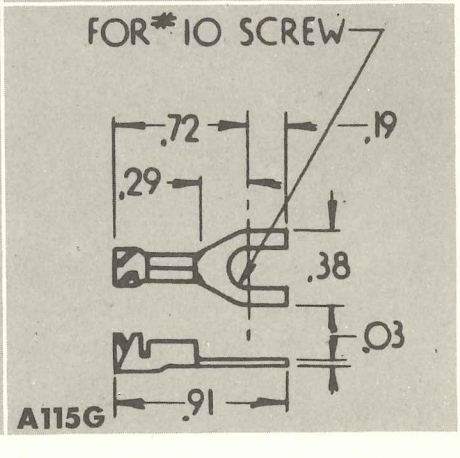
A115



A113G



A114G



A115G

FORKED TONGUE STA-KON TERMINALS

T&B ENGINEERED

B

B-G

Wire Range

AWG No. 16—14

Aircraft AN-16, AN-14

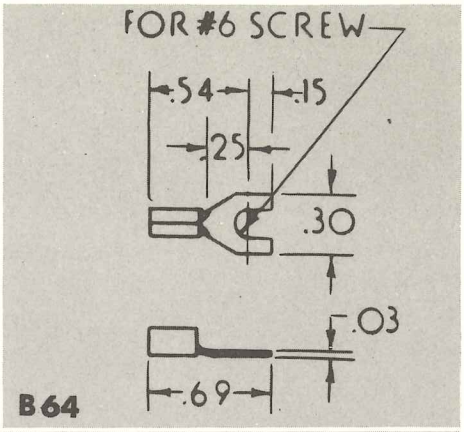
Any wire from .032" to .080" Diameter

Insulation Grip .100" to .187"

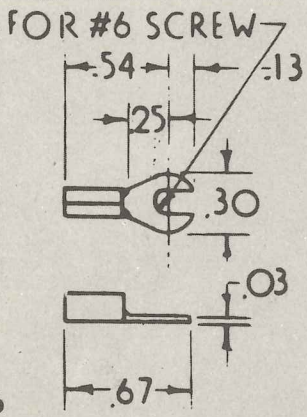
UL Listed for No. 18—14 AWG

Installing Tools: WT 110M, WT 135, 11939, 11940, 11941, 11942, 21060G, 21070G, 21688

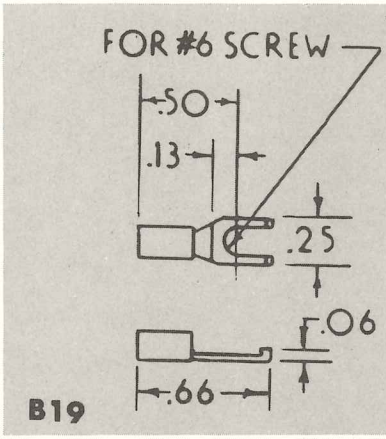
Complete tool listing, pages 64-67.



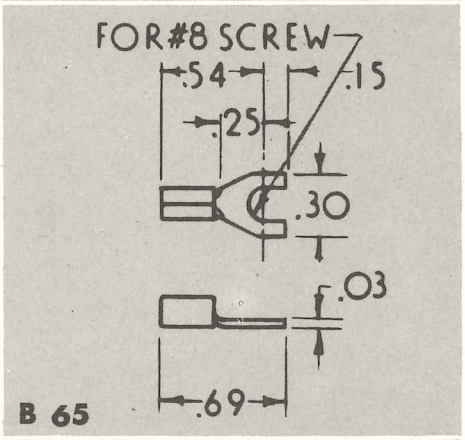
B64



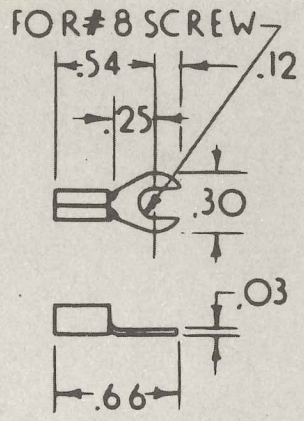
B 116



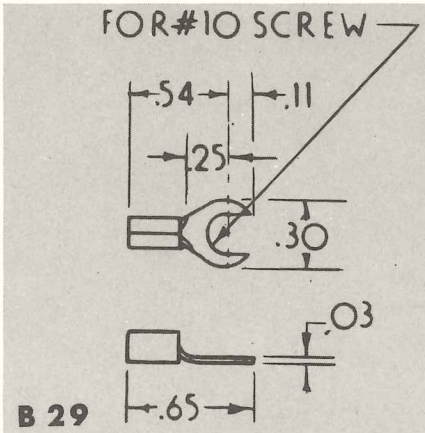
B19



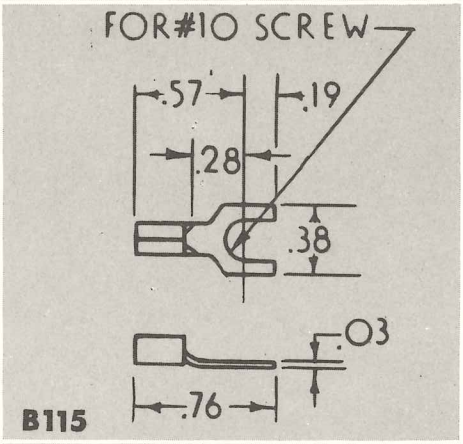
B 65



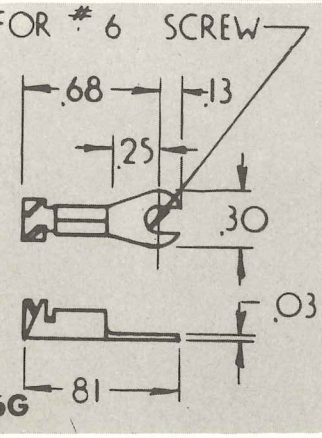
B 114



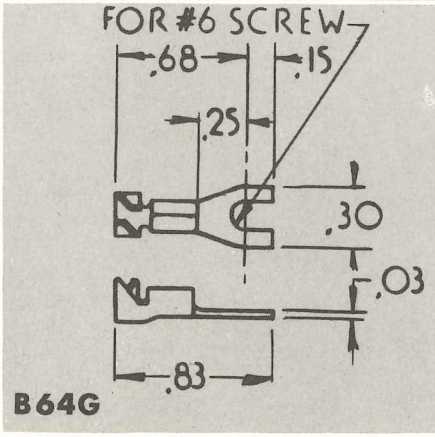
B 29



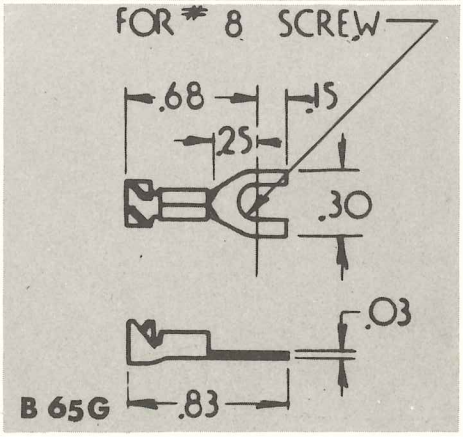
B115



B 116G

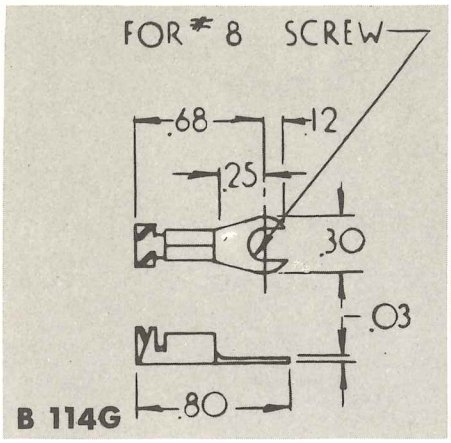


B64G

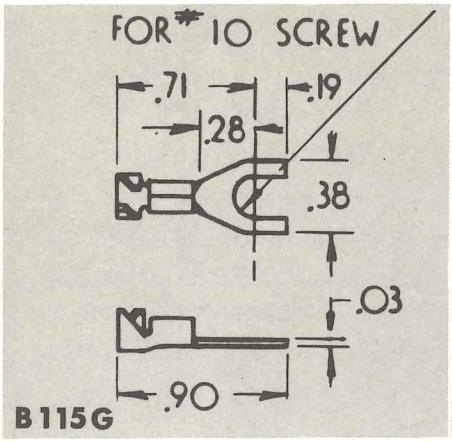


B 65G

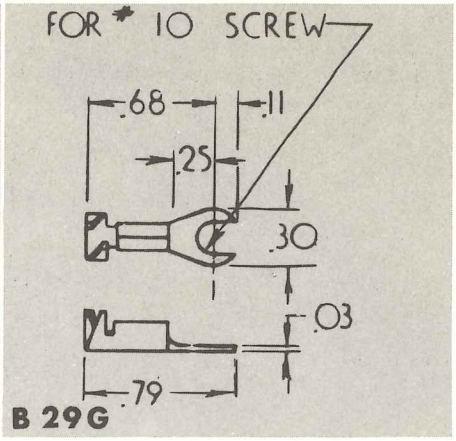
FORKED TONGUE STA-KON TERMINALS



B 114G



B 115G



B 29G

Wire Range

AWG No. 12—10

Aircraft AN-12, AN-10

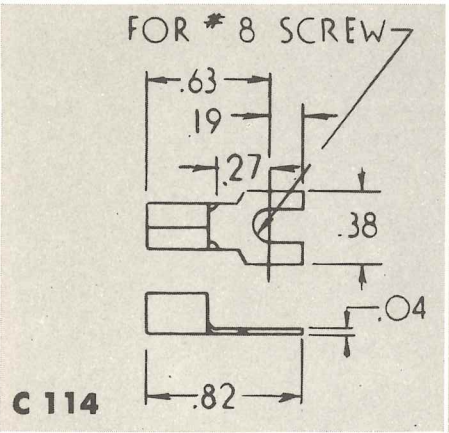
Any wire from .051" to .125" Diameter

UL Listed for No. 16—10 AWG

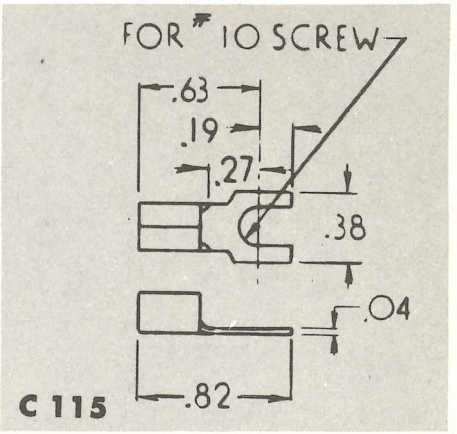
Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933 11934, 21060, 21680, 21070, 21683, 21687

Complete tool listing, pages 64-67.

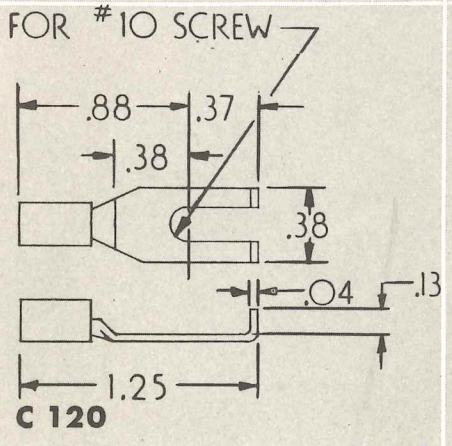
B-G
C



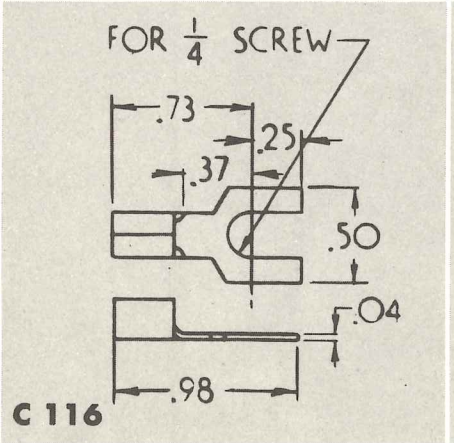
C 114



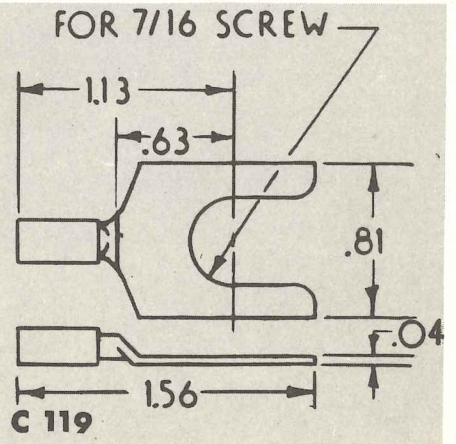
C 115



C 120



C 116

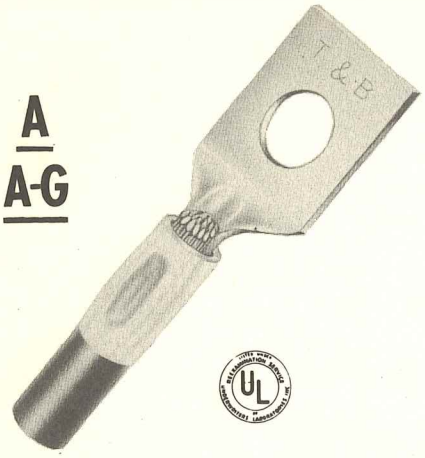


C 119

RECTANGULAR TONGUE STA-KON TERMINALS

T&B ENGINEERED

A
A-G



Wire Range

AWG No. 22—18

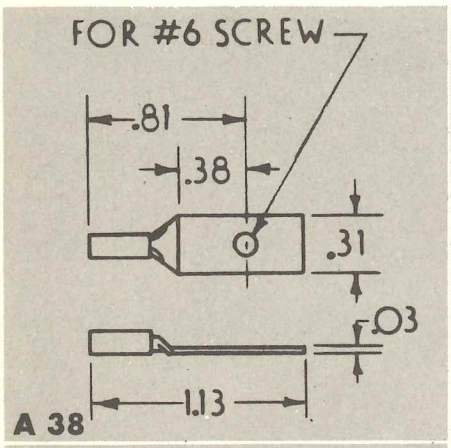
Aircraft AN-22, AN-18

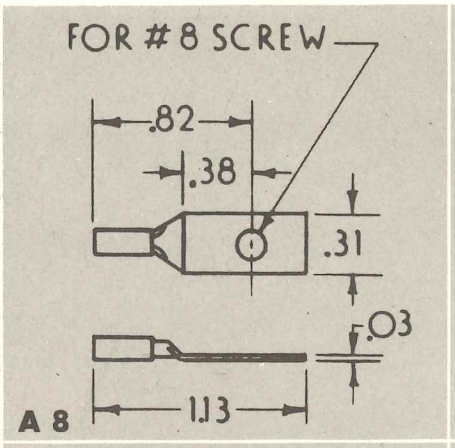
Any wire from .025" to .052" Diameter

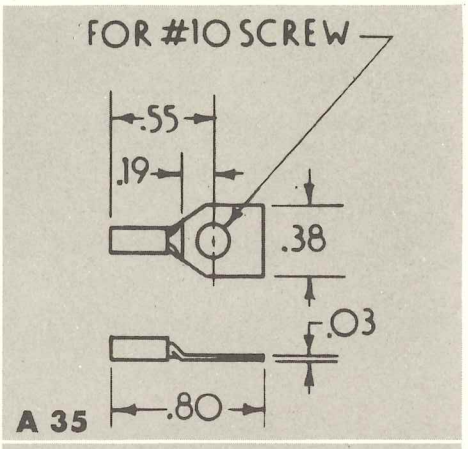
UL Listed for No. 18 AWG

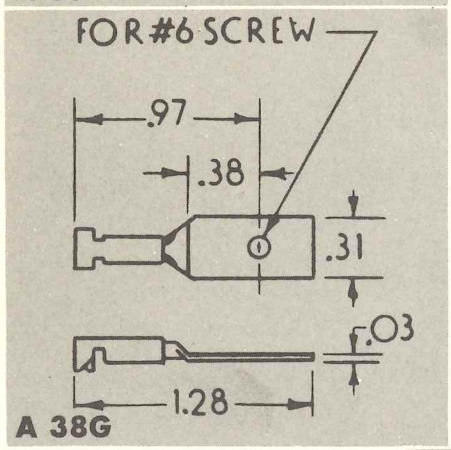
Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

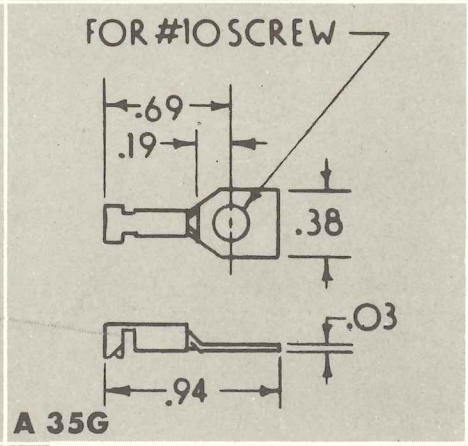
Complete tool listing, pages 64-67.

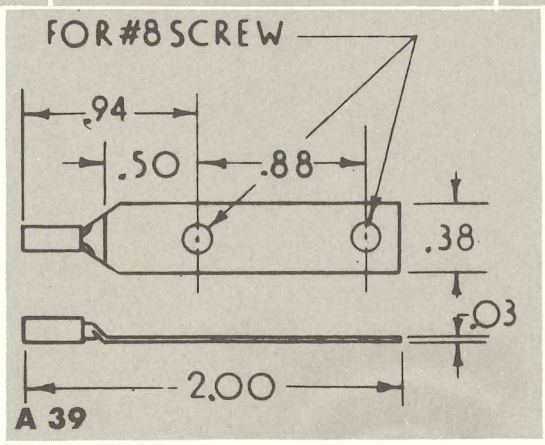




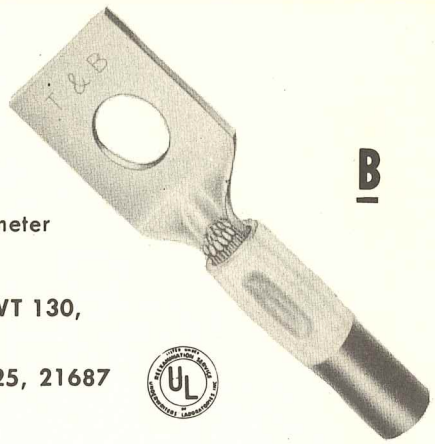








RECTANGULAR TONGUE STA-KON TERMINALS



B

Wire Range

AWG No. 16—14

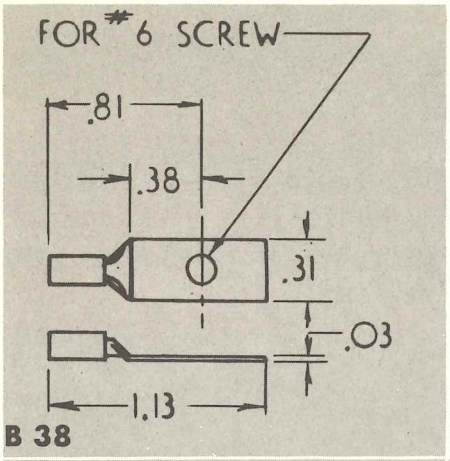
Aircraft AN-16, AN-14

Any wire from .032" to .080" Diameter

UL Listed for No. 18—14 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

Complete tool listing, pages 64-67.



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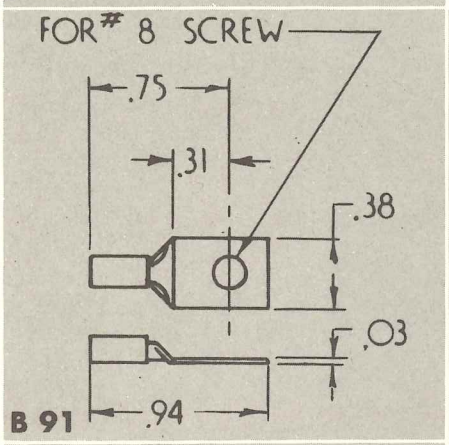
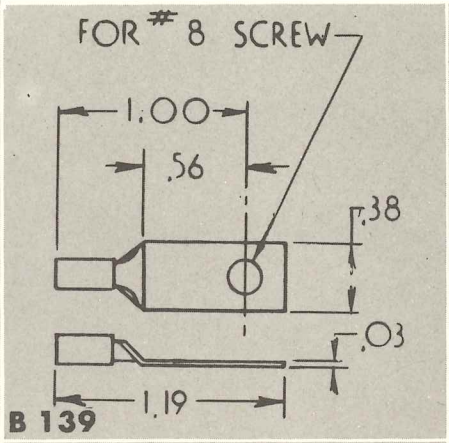
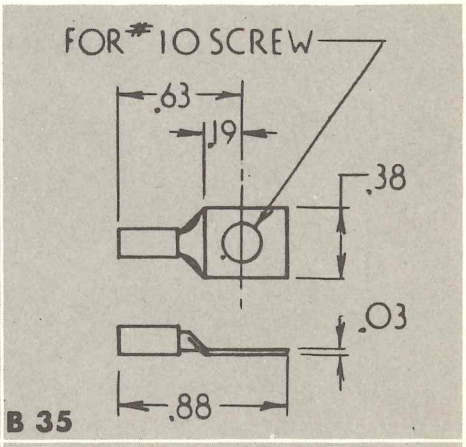


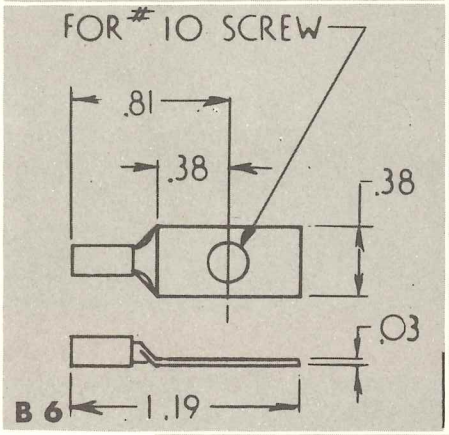
B 91



B 139



B 35



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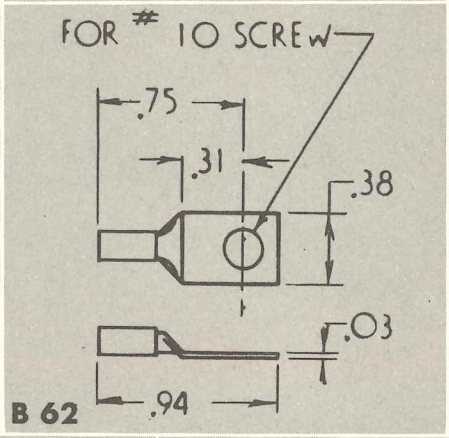
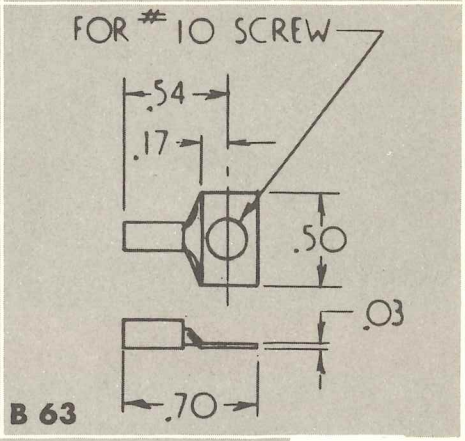
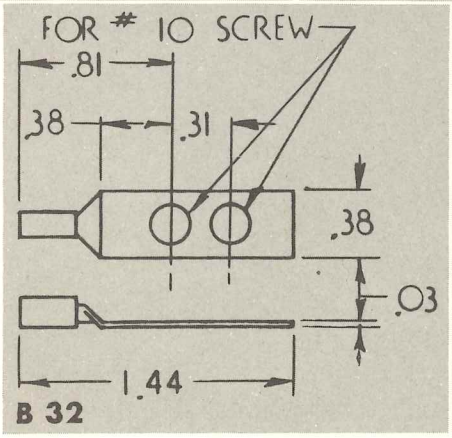


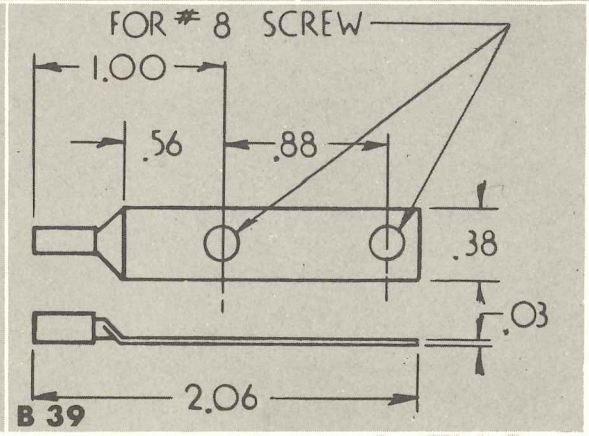
B 62



B 63



B 32



B 39

RECTANGULAR TONGUE STA-KON TERMINALS

T&B ENGINEERED

C

Wire Range

AWG No. 12—10

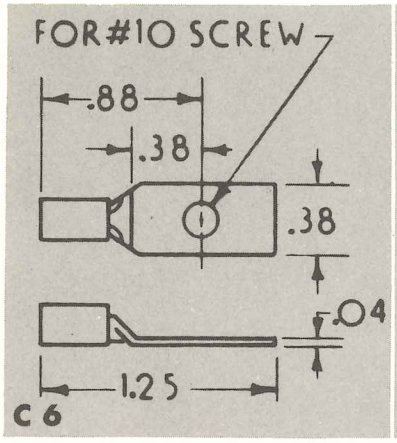
Aircraft AN-12, AN-10

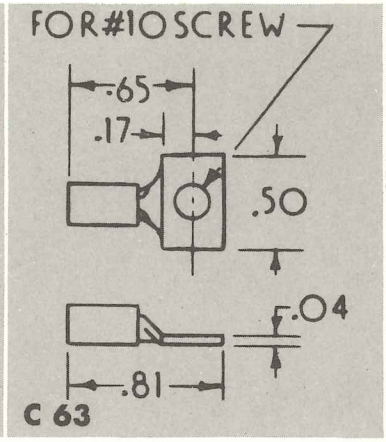
Any wire from .051" to .125" Diameter

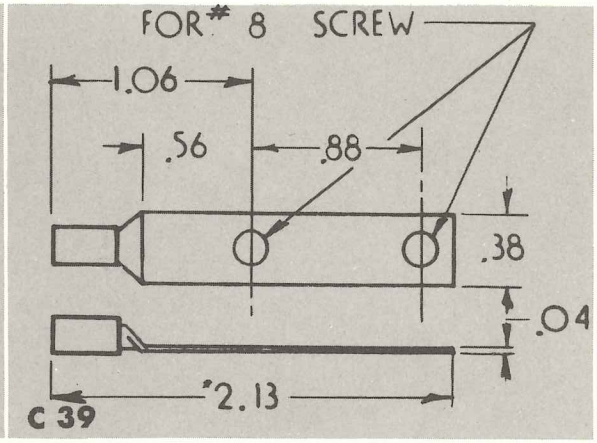
UL Listed for No. 16—10 AWG

Installing Tools: WT 111M, WT 160, WT 130, WT 131, 11931, 11932, 11933, 11934, 21060, 21677, 21070, 21725, 21687

Complete tool listing, pages 64-67.







D

Wire Range

AWG No. 7, 8, 9

Shipboard No. 14

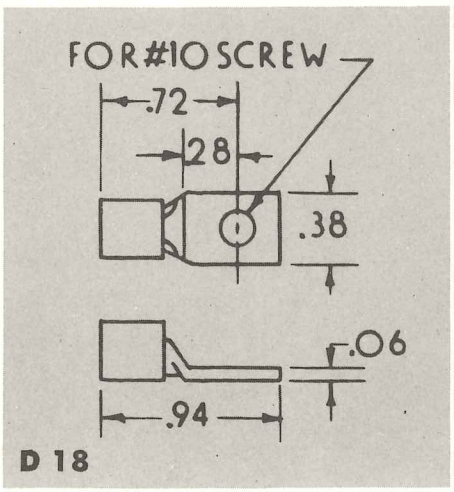
Aircraft AN-8

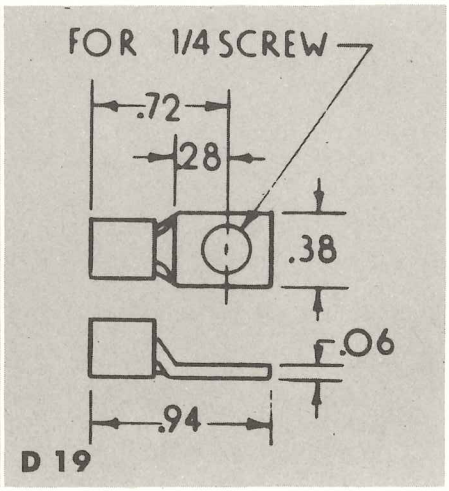
Any wire from .123" to .175" Diameter

UL Listed for No. 7, 8, 9 AWG

Installing Tools: WT 115, WT 149, 21072

Complete tool listing, pages 64-67.





UNUSUAL STA-KON TERMINALS

Wire Range

A size: AWG No. 22—18

B size: AWG No. 16—14

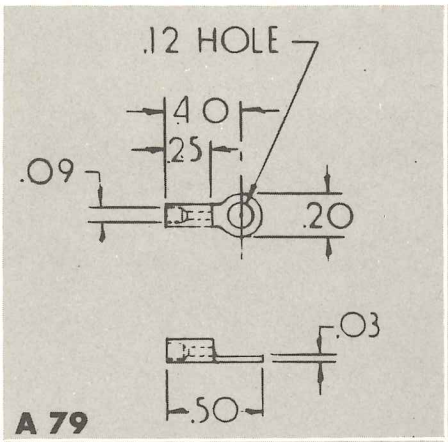
C size: AWG No. 12—10

Installing Tools for A, B, and C size terminals: WT 110M, WT 111M, WT 130, WT 131

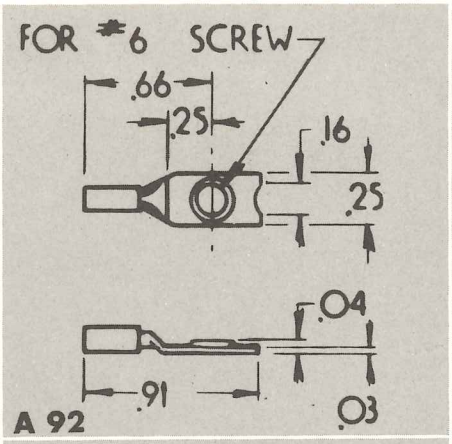
For A150, A151, A152: WT 165

Complete tool listing, pages 64-67.

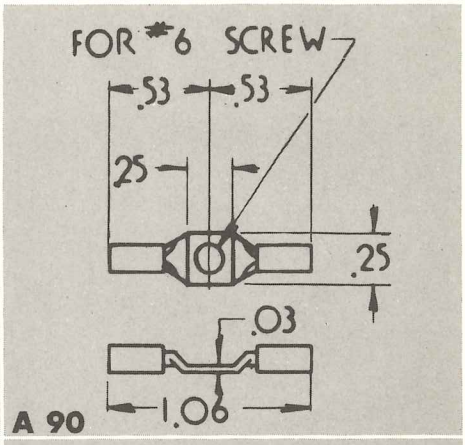
A



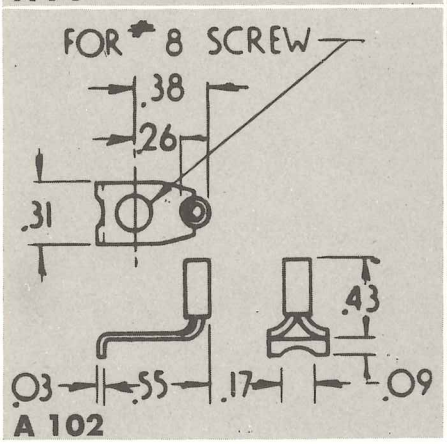
A 79



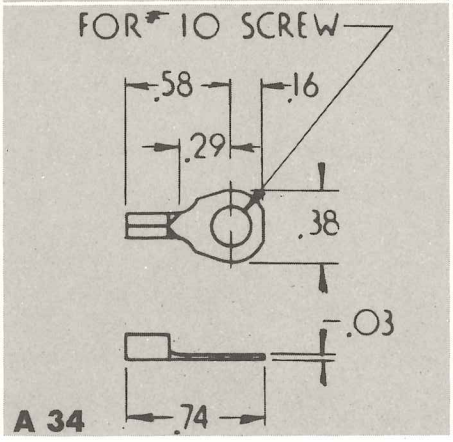
A 92



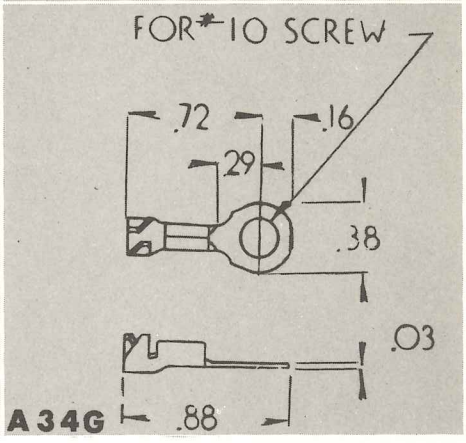
A 90



A 102

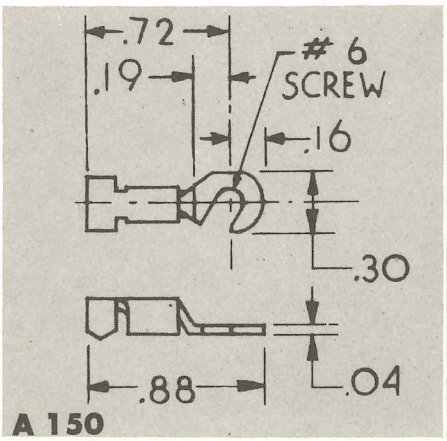


A 34

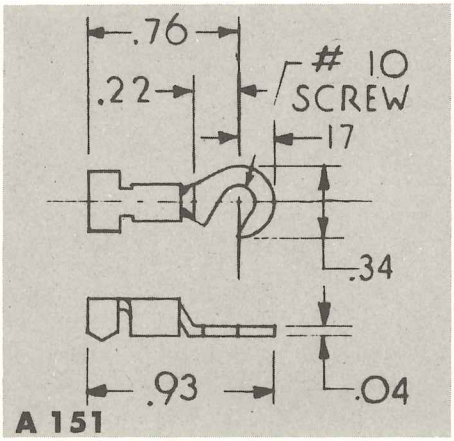


A 34G

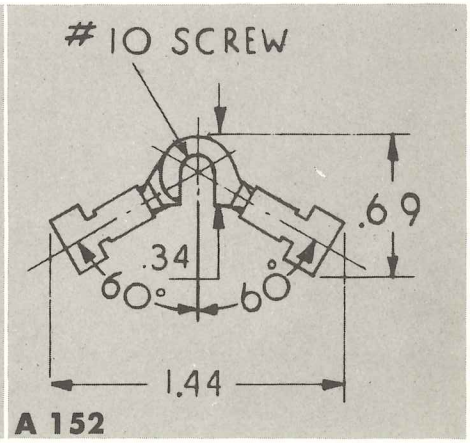
TELEVISION TERMINALS



A 150



A 151



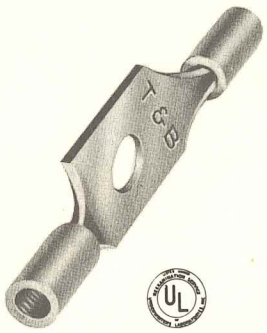
A 152

Improved manufacturing methods may cause slight changes in dimensions shown.

UNUSUAL STA-KON TERMINALS

T&B ENGINEERED

B



Wire Range

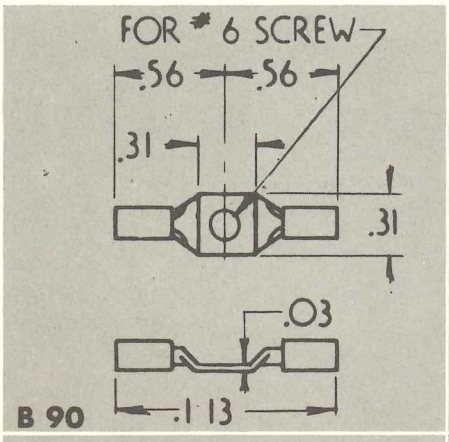
A size: AWG No. 22—18

B size: AWG No. 16—14

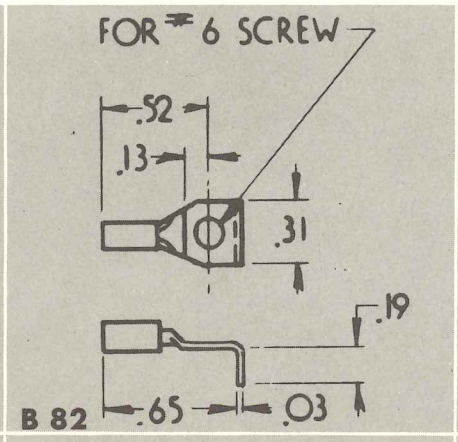
C size: AWG No. 12—10

Installing Tools for A, B, and C size terminals: WT 111M, WT 130, WT 131

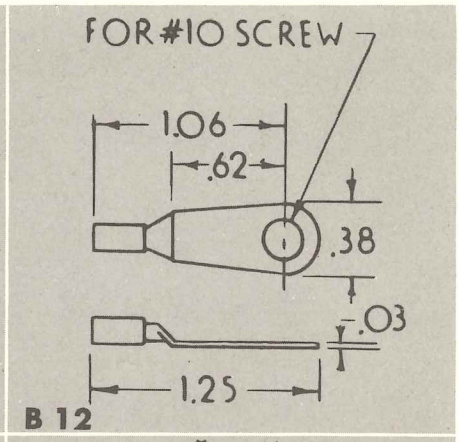
Complete tool listing, pages 64-67.



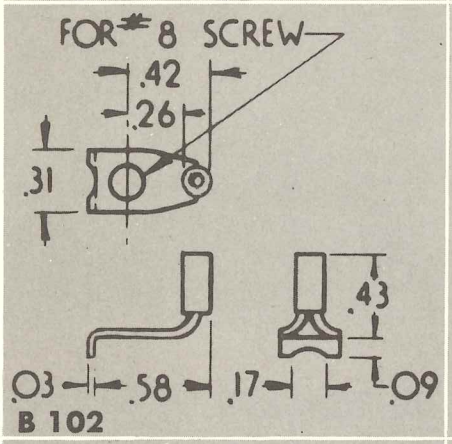
B 90



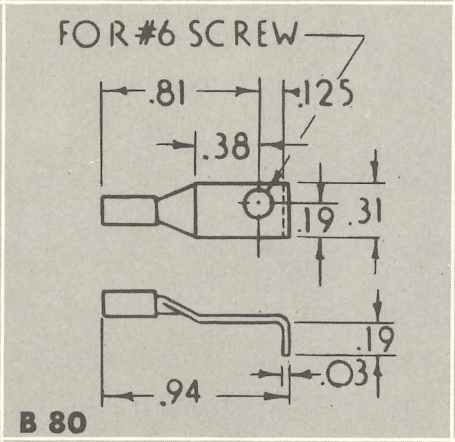
B 82



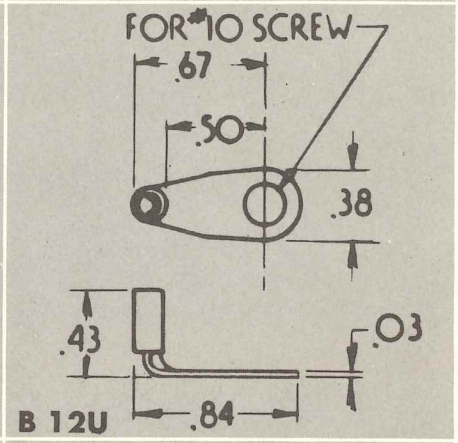
B 12



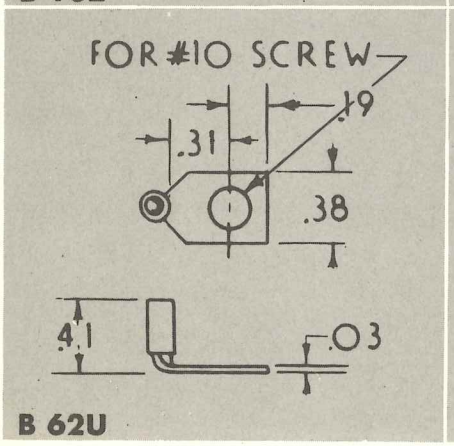
B 102



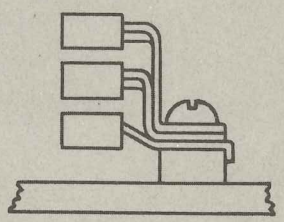
B 80



B 12U



B 62U



B 15, 16, 17 Assembly

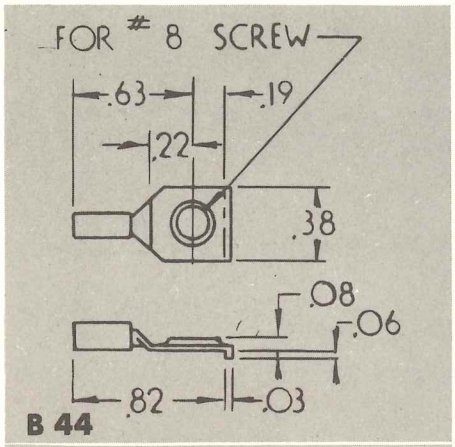
Improved manufacturing methods may cause slight changes in dimensions shown.

SPECIALLY ENGINEERED TERMINALS

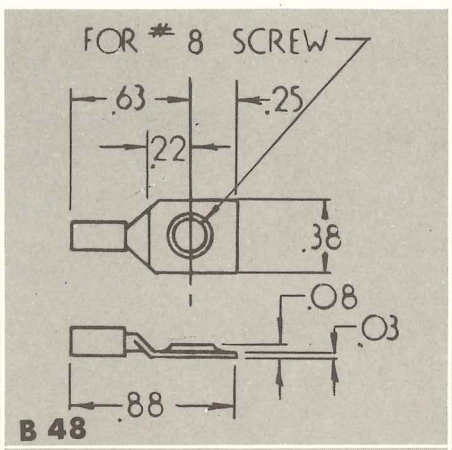
T&B Engineers are small terminal specialists. They have made Sta-Kon Terminals with many unusual tongue shapes. They have made terminals for electric soldering irons, disconnect terminals for capacitors, tiny gold plated terminals for miniature radar tubes, and even Sta-Kon Terminals whose tongues could be soldered to glass heating panels.

They would welcome an opportunity to work on your terminal problems. Send details to the factory in Elizabeth, or ask a T&B Field Service Engineer to call.

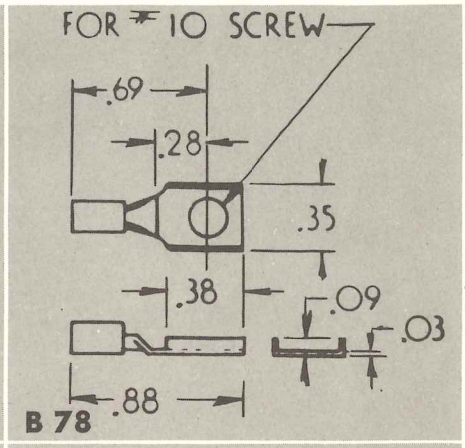
B
C



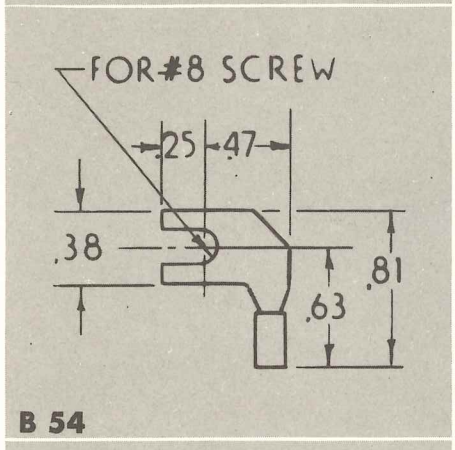
B 44



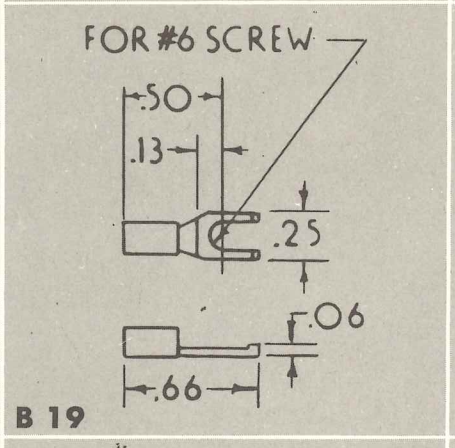
B 48



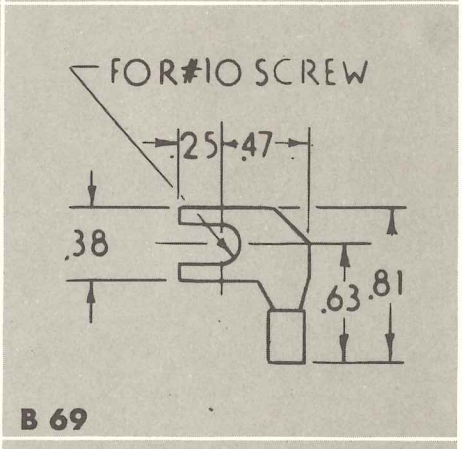
B 78



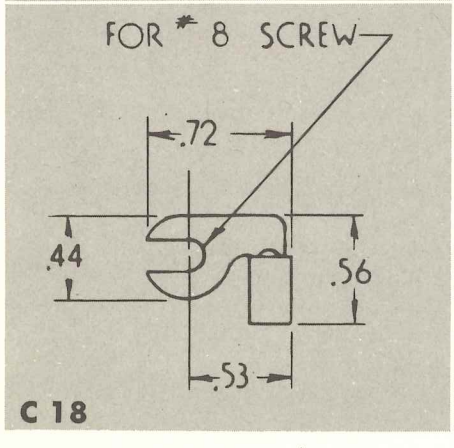
B 54



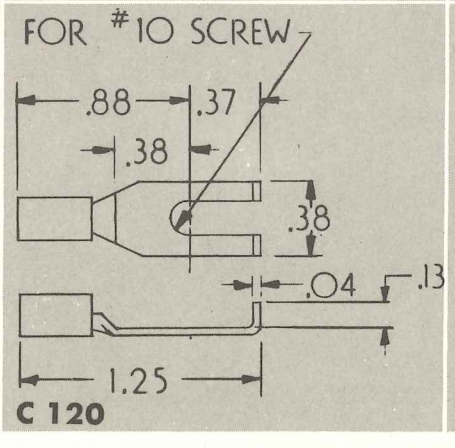
B 19



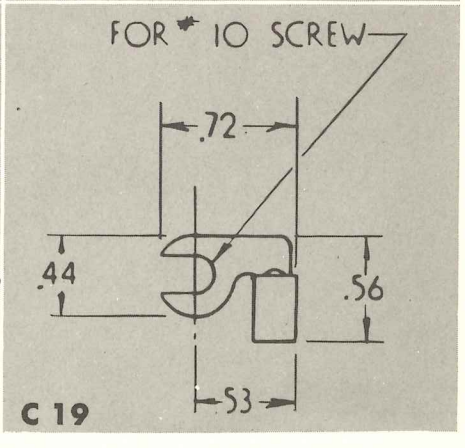
B 69



C 18



C 120

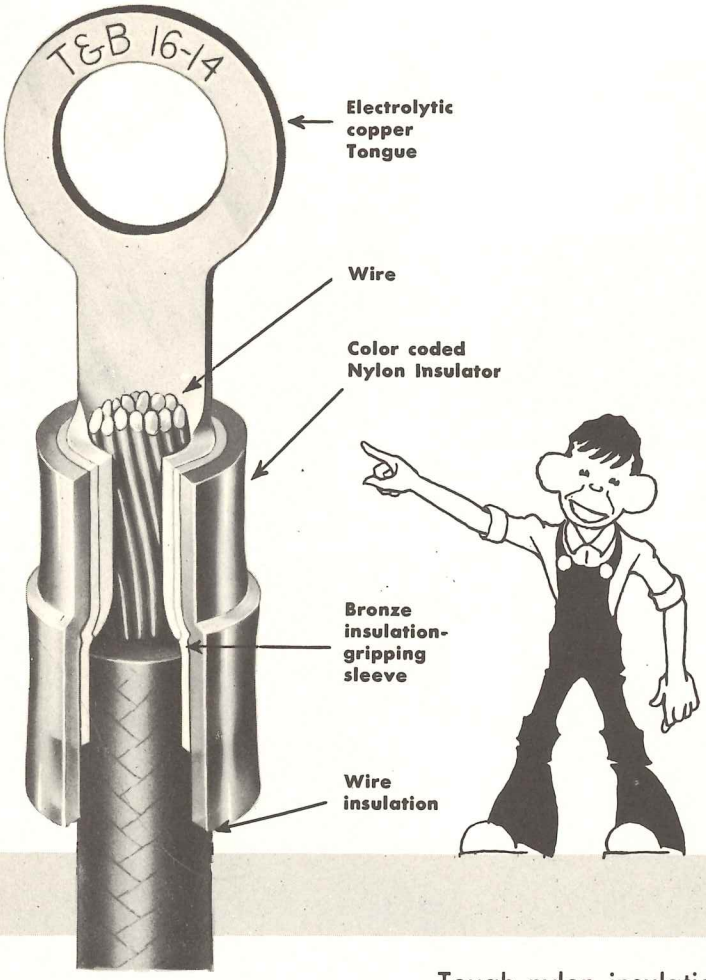


C 19

Improved manufacturing methods may cause slight changes in dimensions shown.

Rugged

NYLON-INSULATED
INSULATION-GRIP
STA-KON TERMINALS



Pure copper tongue for low millivolt drop.

Nylon insulator for high dielectric strength.

Long creepage path around insulating skirt for minimum leakage.

Size, contour, material, and manufacture meet specification, MIL-T-7928, and military standard, MS 25036.*

Wide wire range surpasses even military specifications.

Sta-Kon tool installation insures firm grip on wire—exceeding military pull-out requirements.

Bronze insulation grip sleeve protects the wire against vibration and severe bending by putting some of the strain on the insulation.

Tough nylon insulation is not affected by common solvents, oil, gasoline, naphtha, hydraulic fluids.

Nylon insulation will withstand more heat than most wire insulations. It will endure baking temperatures of insulating varnishes.

Insulation is securely anchored by flared barrel both before and after installation.

Insulation is color coded—red, blue, and yellow, according to military standards—for quick size identification.

Nylon insulation is light, reducing weight of insulated terminals.

Power installing tools appear on pages 65 and 67.

Shure Stake Hand Installing Tool, specified in MS 25037, installs nylon-insulated insulation grip terminals with ease and certainty in one operation. Cushion handles make the tool comfortable. Ratchet and pawl mechanism guarantees perfect staking.

WT 145

*MS 25036 dash numbers and T&B catalog number equivalents are listed in Bulletin 63, Military Supplement.

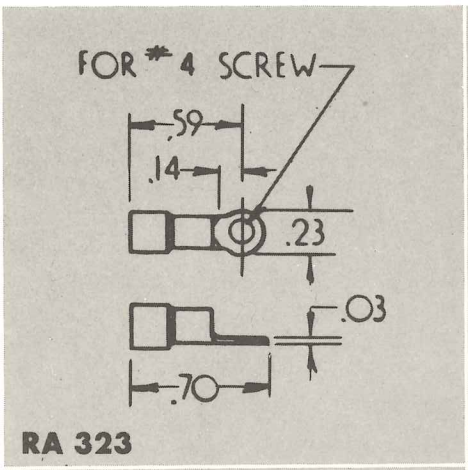
SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

Wire Range
AWG No. 22—18
Aircraft AN-22—AN-18
Any wire from .025" to .052" Diameter
Insulation Grip: .056" to .120"

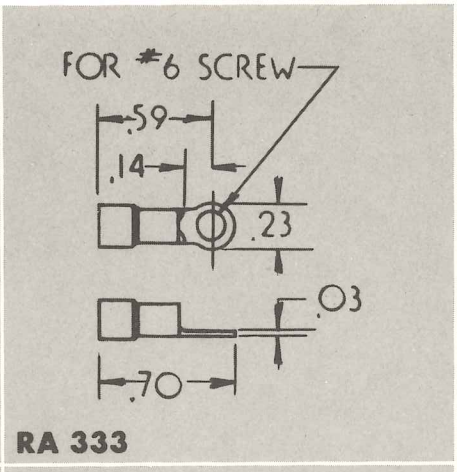
MS 25036
UL Listed for No. 18 AWG
Installing Tools: WT 145, 11935, 11936, 21678, 21728.

Complete tool listing, pages 64-67.

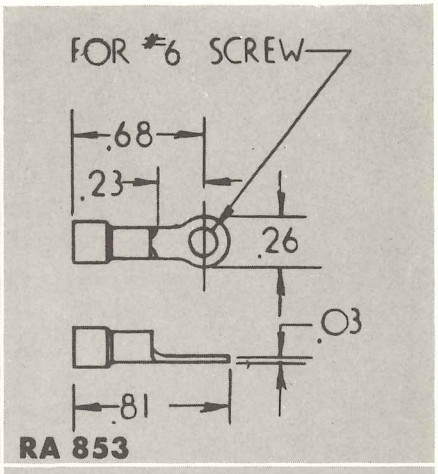
RA



RA 323



RA 333



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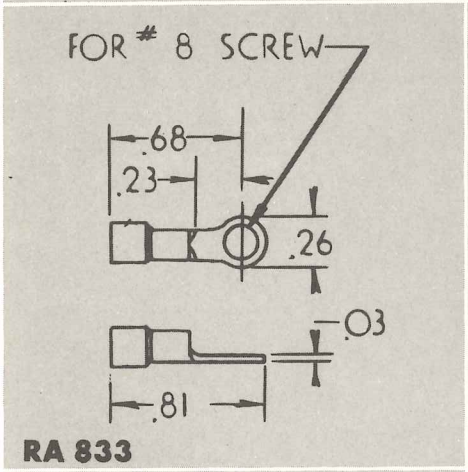

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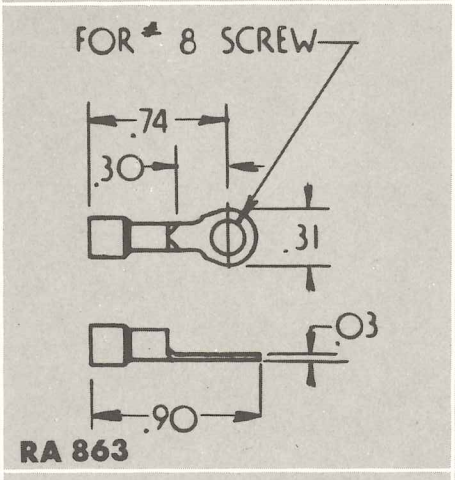

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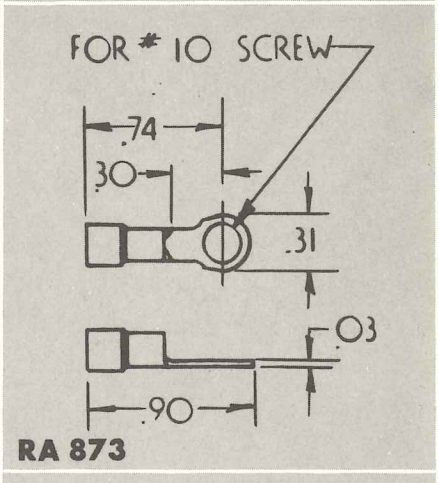

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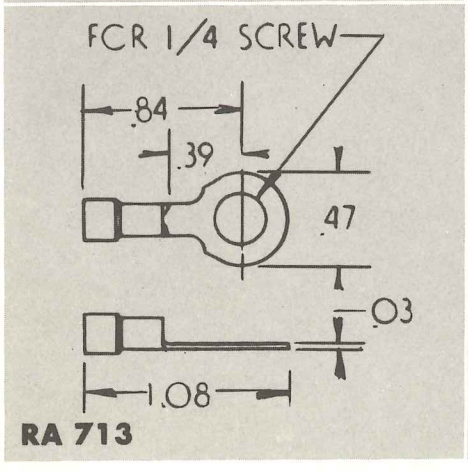
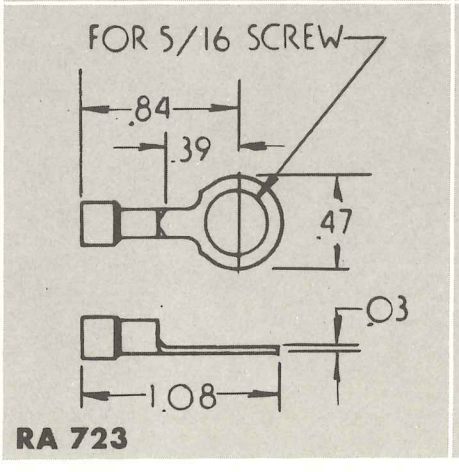


RA 713



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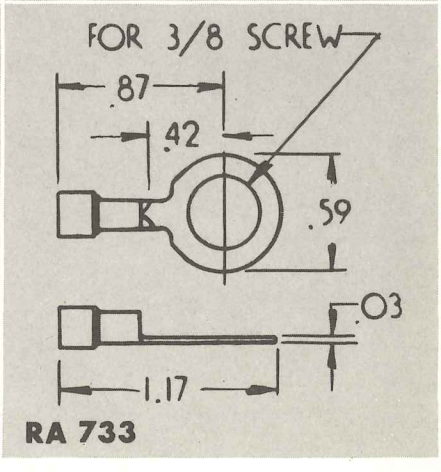
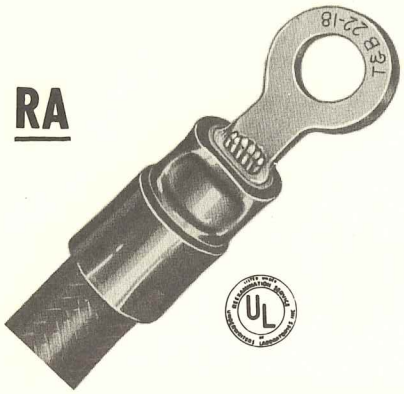


RA 733

SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

T&B ENGINEERED

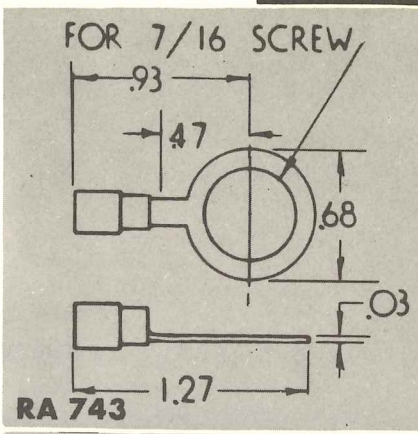
RA



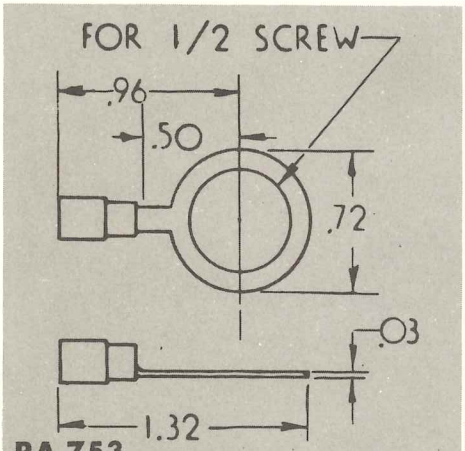
Wire Range
AWG No. 22—18
Aircraft AN-22—AN-18
Any wire from .025" to .052" Diameter
Insulation Grip: .056" to .120"

MS 25036
UL Listed for No. 18 AWG
Installing Tools: WT 145, 11935, 11936, 21678, 21728.

Complete tool listing, pages 64-67.



RA 743



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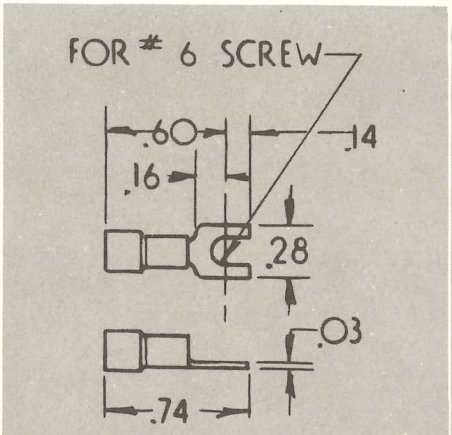
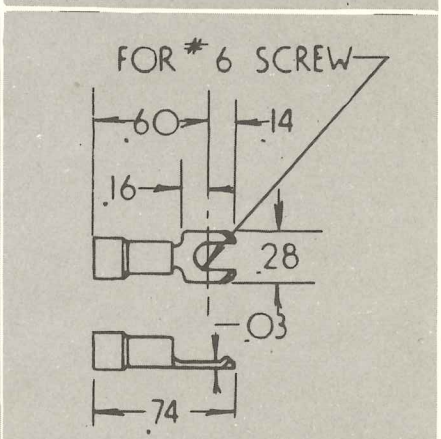
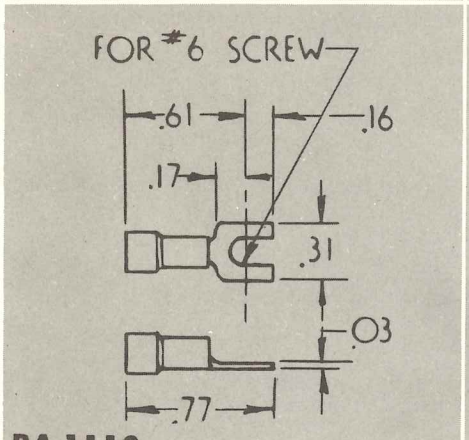


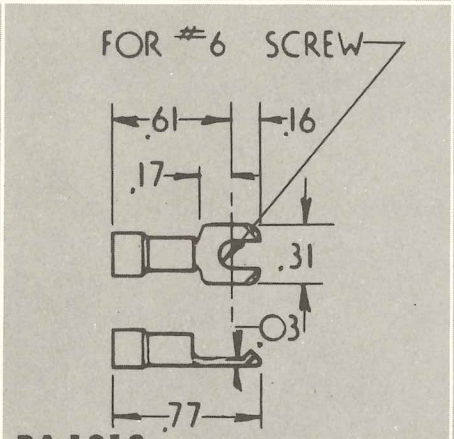
RA 1103



RA 1203



RA 1113



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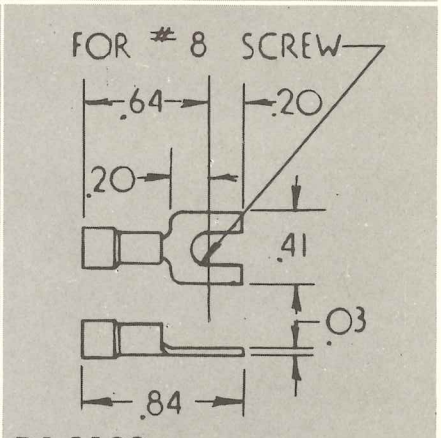

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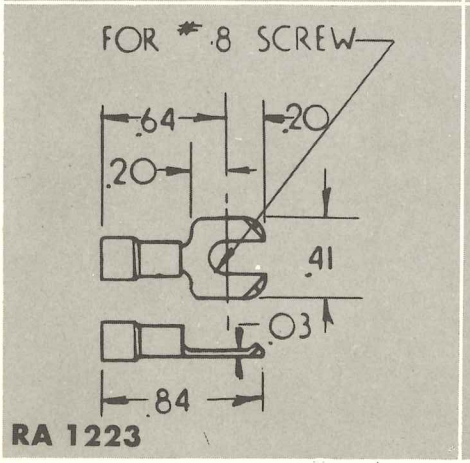

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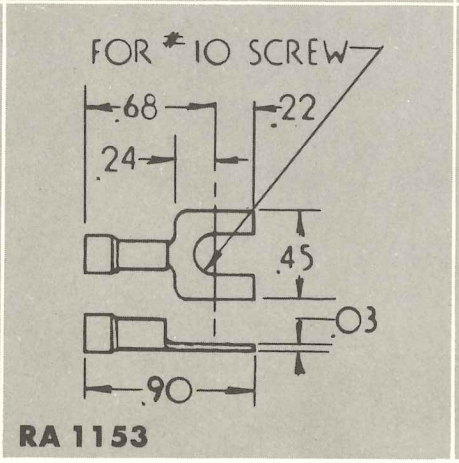

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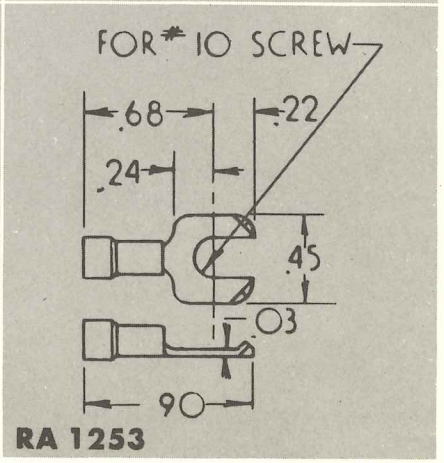


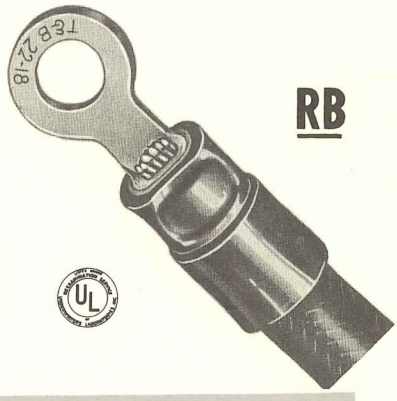
RA 1253

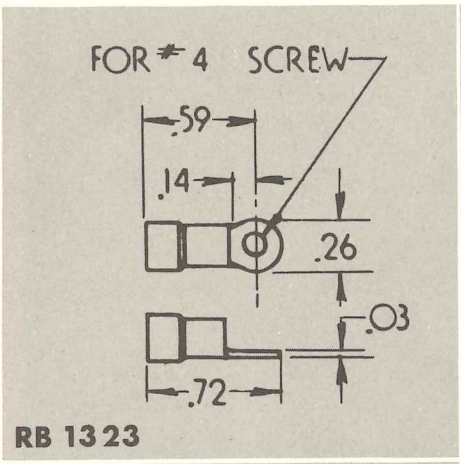
SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

Wire Range
AWG No. 16, 14
Aircraft AN-16—AN-14
Any wire from .032" to .080" Diameter
Insulation Grip: .056" to .160"

MS 25036
UL Listed for No. 18—14 AWG
Installing Tools: WT 145, 11935, 11936, 21678, 21728.

Complete tool listing, pages 64-67.





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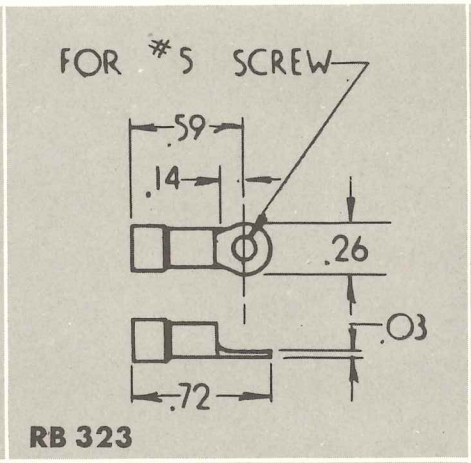
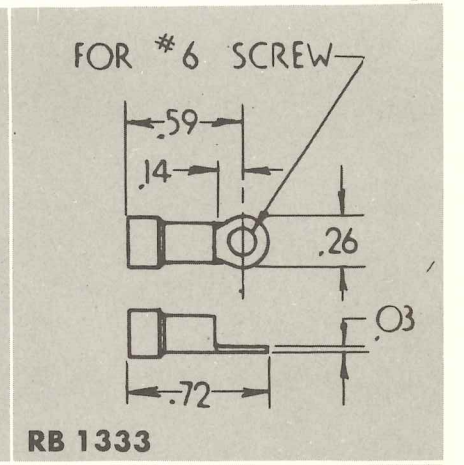
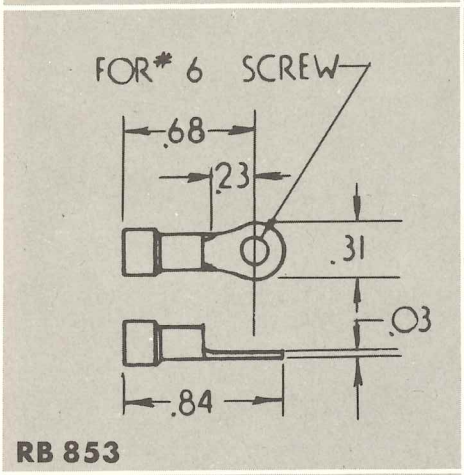


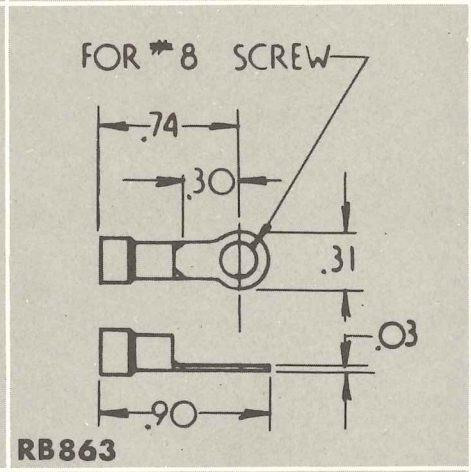
RB 323



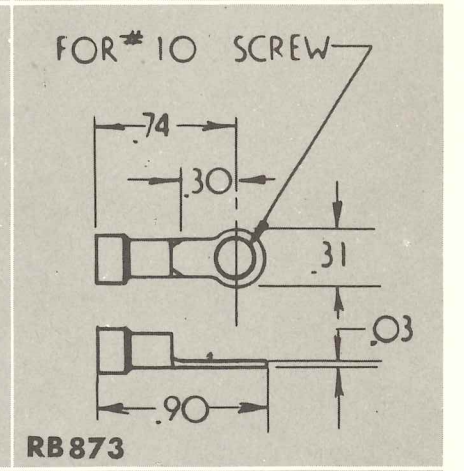
RB 1333



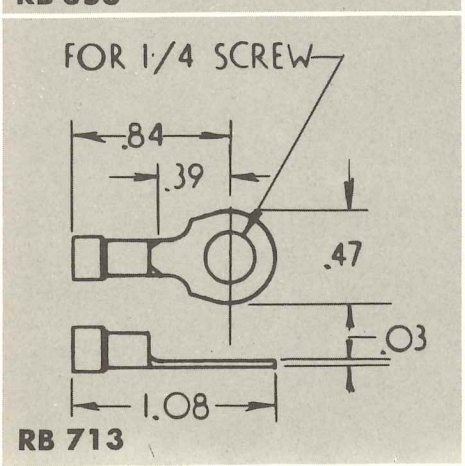
RB 853



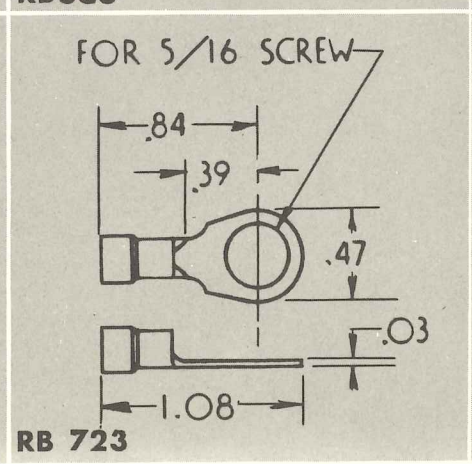
RB863



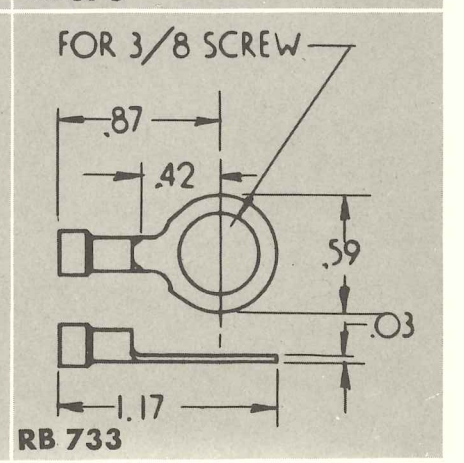
RB873



RB 713



RB 723

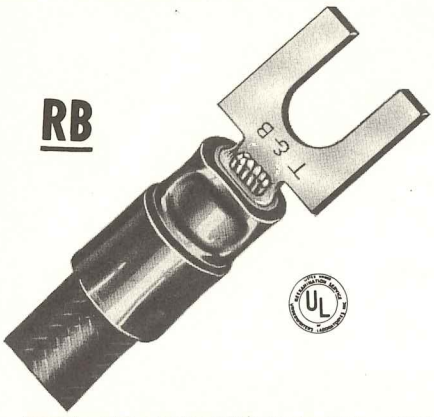


RB 733

SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

T&B ENGINEERED

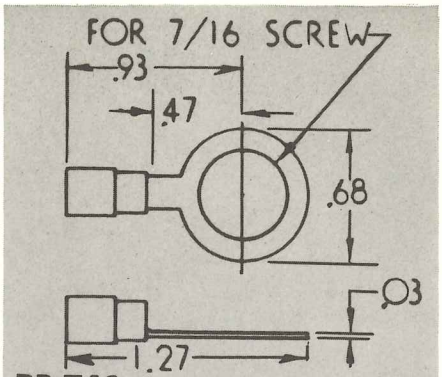
RB



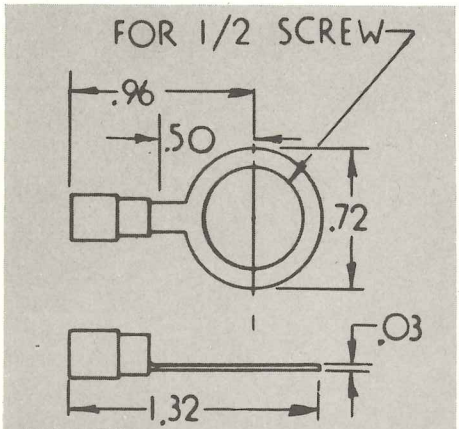
Wire Range
AWG No. 16, 14
Aircraft AN-16—AN-14
Any wire from .032" to .080" Diameter
Insulation Grip: .056" to .160"

MS 25036
UL Listed for No. 18—14 AWG
Installing Tools: WT 145, 11935, 11936, 21678, 21728.

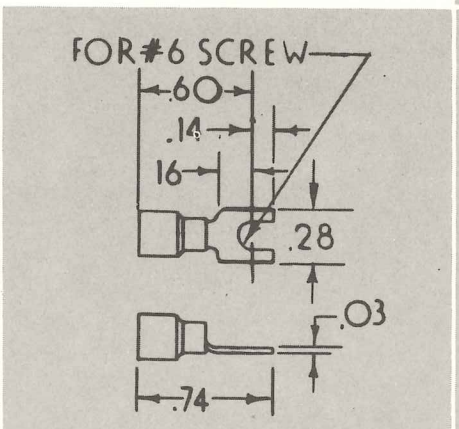
Complete tool listing, pages 64-67.



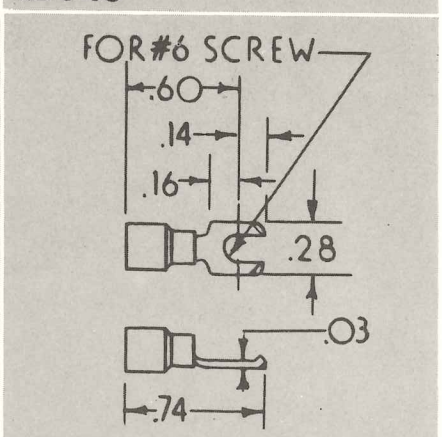
RB 743



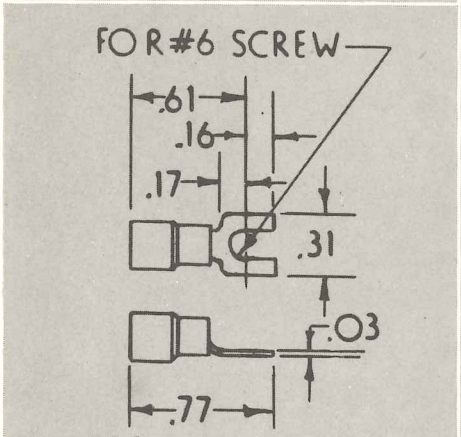
RB 753



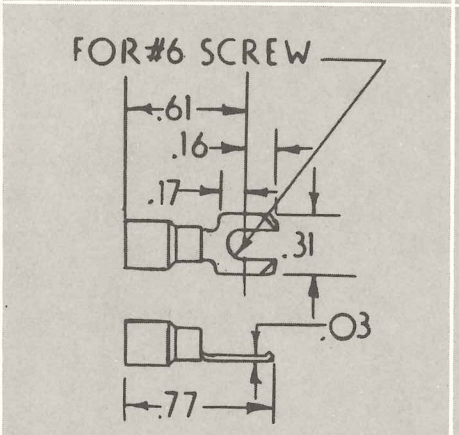
RB 1103



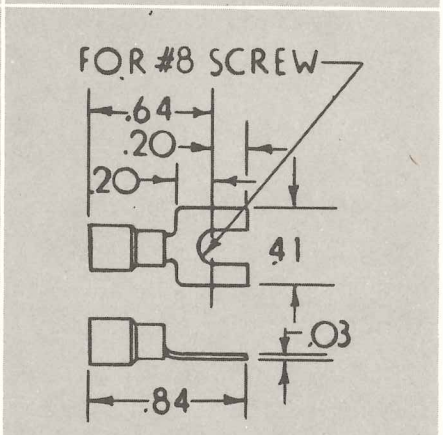
RB 1203



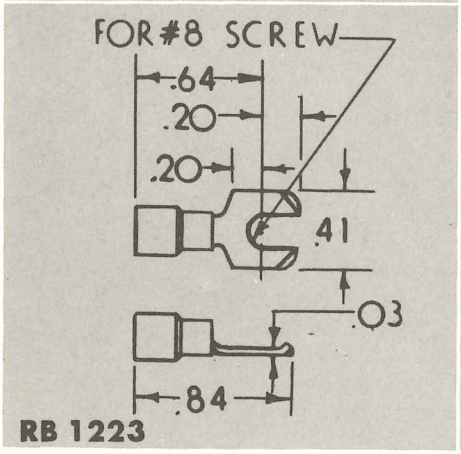
RB 1113



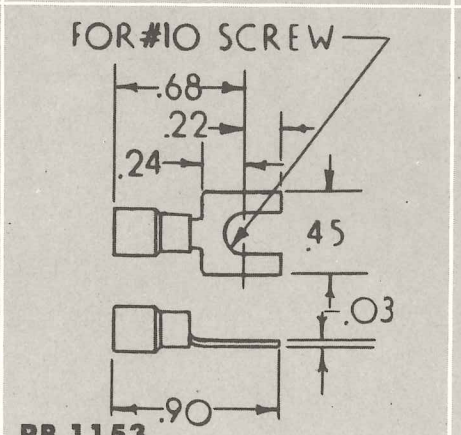
RB 1213



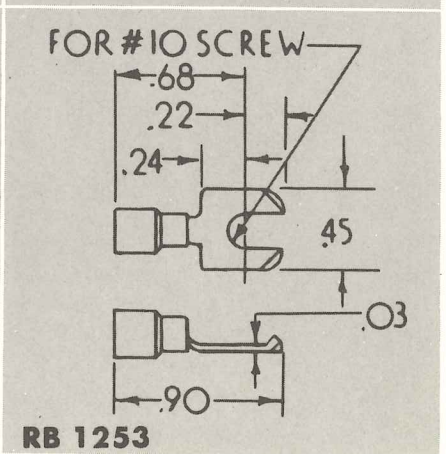
RB 1123



RB 1223



RB 1153

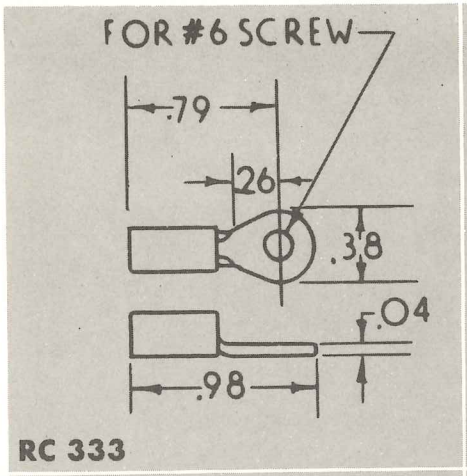


RB 1253

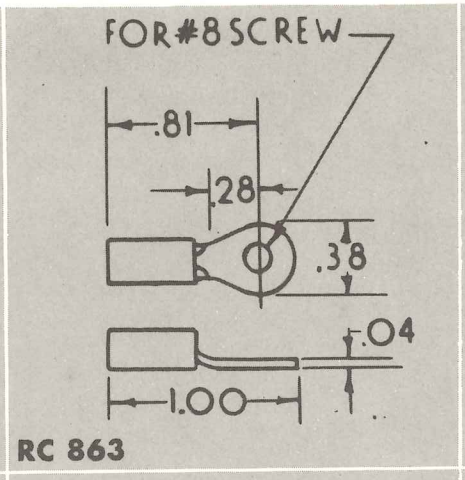
SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

Wire Range
AWG No. 12, 10
Aircraft AN-12, AN-10
Any wire from .051" to .125" Diameter
Insulation Grip: .149" to .187"

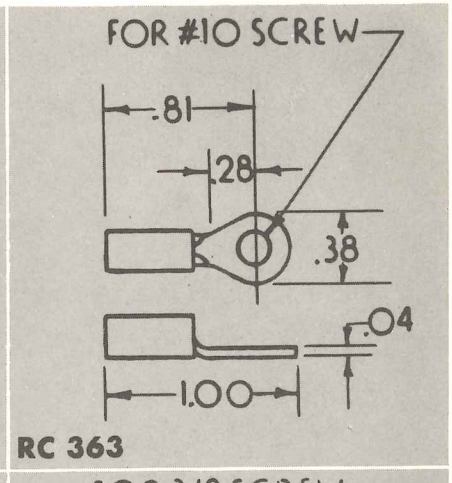
MS 25036
UL Listed for No. 16—10 AWG
Installing Tools: WT 145, 11935, 11936, 21678, 21728.
Complete tool listing, pages 64-67.



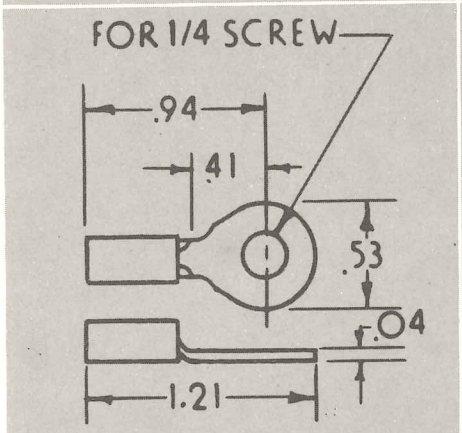
RC 333



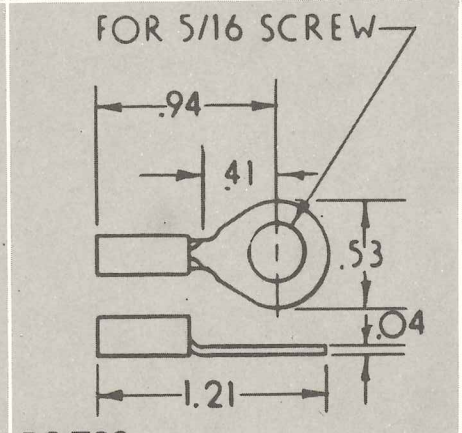
RC 863



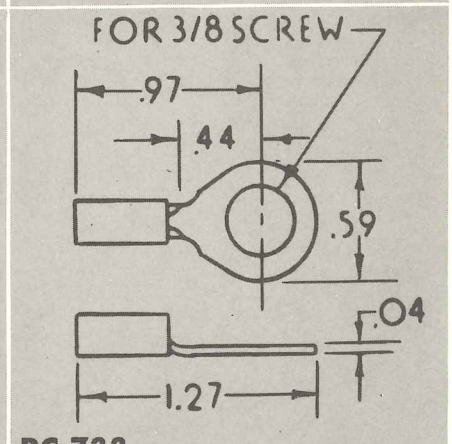
RC 363



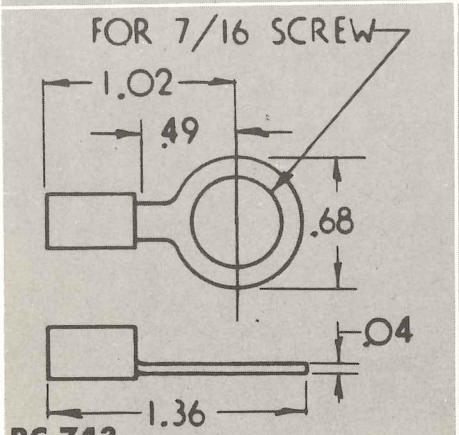
RC 713



RC 703

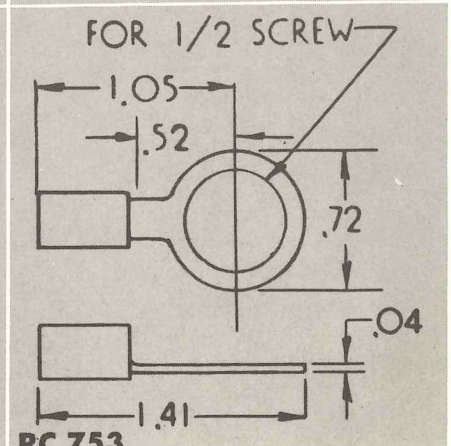


RC 733



RC 743

These C size terminals are also available without insulation grip. Catalog number of the non-grip terminal is one number lower than that of the corresponding insulation grip terminal. For instance, RC332 without grip corresponds to RC333; RC862 without grip corresponds to RC863. Terminals without grip have the same dimensions as corresponding terminals with grip.

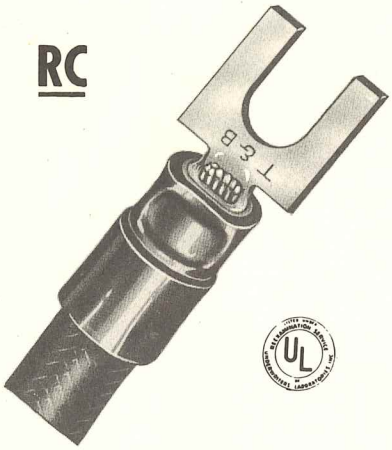


RC 753

SELF-INSULATED INSULATION GRIP STA-KON TERMINALS

T&B ENGINEERED

RC



Wire Range

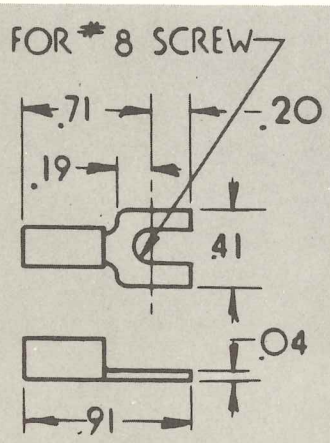
AWG No. 12, 10
Aircraft AN-12, AN-10
Any wire from .051" to .125" Diameter
Insulation Grip: .149" to .187"

MS 25036

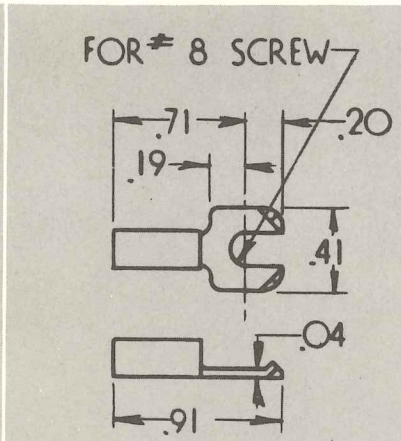
UL Listed for No. 16—10 AWG

Installing Tools: WT 145, 11935, 11936, 21678, 21728.

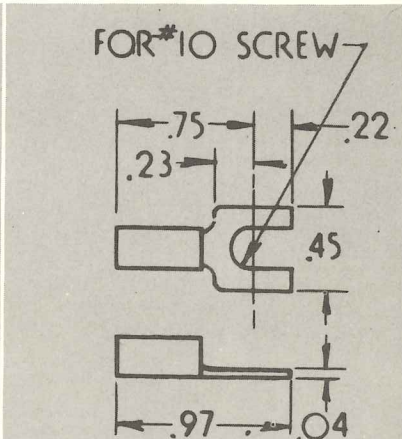
Complete tool listing, pages 64-67.



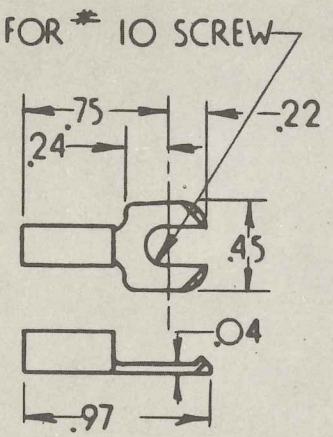
RC 1123



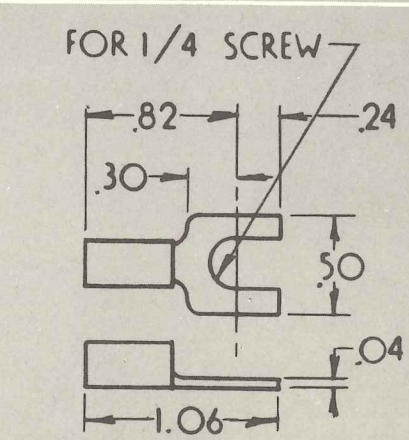
RC 1223



RC 1153



RC 1253



RC 1163

STA-KON WIRE JOINTS

Sta-Kon Wire Joints are engineered to hold fast. They will not loosen from vibration. Once staked on, they stay on. Both ends of the barrel are open for visual inspection. Specially designed ears allow the Insulating Cap to be screwed on easily, but make it difficult to remove. The tough, translucent Insulating Cap is approved for both circuit and fixture wiring. Sta-Kon Wire Joints will hold pigtails of 3 #12 wires and many smaller combinations. See page 53.

PT 66

To Install

Twist wires, insert through serrated barrel of Sta-Kon Joint.

Apply staking pressure with standard Sta-Kon Hand Tool.

With same tool, trim off any excess wire.

Screw Insulator firmly onto barrel. Job's done.

PT 60

PT 70

Wire Size	Item	Cat. No.
3 #12 and many smaller combinations. Complete listing on page 53	Complete Connector	PT66
	Bronze Barrel only	PT60
	Insulating Cap	PT6
	Barrel without ears, for taping	PT70

Use Cat. No. WT111M Hand Tool for PT60 and PT70.

RB 4

STA-KON INSULATED WIRE JOINTS

Just one simple staking operation connects pigtail wires and insulates the joint. The bronze barrel holds the wires everlastingly, and the tough nylon jacket gives full insulating protection. These are one-piece connectors with no loose parts. Neat and compact, they fit readily into crowded boxes. They have passed UL tests for dielectric strength and pull-out.

RC 6

Wire Size	LENGTH	Cat. No.
3 #18	.92	RB 4
3 #14	.85	RC 6

Use Cat. No. WT105M Hand Tool for RB4 and RC6.

STA-KON INSULATED TWO-WAY CONNECTORS

RB 25

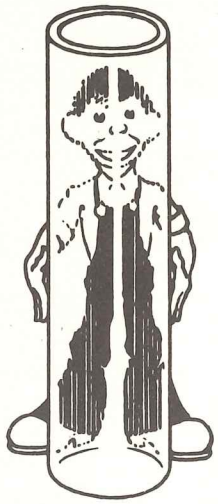
Wire Size	Length	Cat. No.
#22-18	.69	RA24
#22-16	1.02	RBB21
#20-14	.69	RB25
#16-10	.84	RC26

Use Cat No. WT105M Hand Tool for Insulated Two-Way Connector.

INSULATORS

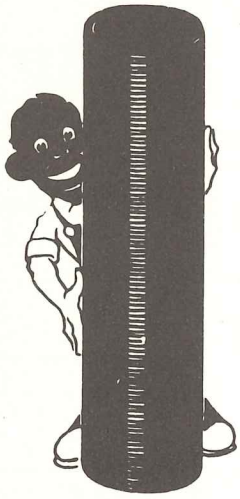
T&B ENGINEERED

Sta-Kon Insulators of extruded plastic tubing slip over regular, uninsulated Sta-Kon terminals connectors, and disconnects to insulate the terminal and support the wire. Light in weight and very flexible, they have high mechanical strength and good dielectric qualities. Even at temperatures as low as —58° or as high as 170°F, they remain flexible. They are available in transparent or black tubing.



For Sta-Kon Size	Approx. I.D. of Tubing	Length of Tubing	Transparent Cat. No.	Black Cat. No.
A	.118*	¾	T 118	H 118
A	.133	¾	T 133	H 133
B	.148*	¾	T148	H 148
B	.166	¾	T 166	H 166
B	.188	¾	T 186	H 186
C	.208*	¾	T 208	H 208
C	.218*	¾	T 218	H 218
C	.234	1	T 234	H 234
C	.263	1	T 263	H 263
C	.294	1	T 294	H 294
D	.313*	1	T 313	H 313
D	.330	1	T 330	H 330
E	.375*	1	T 375	H 375
F	.438*	1	T 438	H 438
F	.500	Specify 1¼	T 500	H 500
G2	.500	Length → 1½	T 500	H 500
G1-H	.625*	1½	T 625	H 625
L	.875*	1¾	T 875	H 875
M	1.000*	1¾	T 1000	H 1000

INSULATORS FOR STA-KON DISCONNECTS †



A 57	.133	1⅞	T 133D	H 133D
B 57	.166	1⅞	T 166D	H 166D
C 58	.208	1⅞	T 208D	H 208D
B 23	.208	2⅛	T 208W	H 208W
C 58	.218	1⅞	T 218D	H 218D
C 58	.234	1⅞	T 234D	H 234D

INSULATORS FOR STA-KON TWO-WAY CONNECTORS‡

Two-Way Connector Cat. No.	Approximate I.D. of Tubing	Specify this length of tubing	Transparent Cat. No.	Black Cat. No.
AA2	.118*	1	T118	H118
AA2	.133	1	T133	H133
BB2	.148*	1	T148	H148
BB2	.166	1	T166	H166
CC2	.208*	1-3/16	T208	H208
CC2	.218	1-3/16	T218	H218
DD2	.313*	1-1/2	T313	H313
DD2	.330	1-1/2	T330	H330
EE2	.375	1-3/4	T375	H375
FF2	.438*	1-3/4	T438	H438
FF2	.500	1-3/4	T500	H500

*Recommended where wire insulation is same size or smaller than barrel.
Insulating tubing can be furnished cut to any specified length.

† Disconnects are shown on page 54.

‡ Two-Way Connectors are shown on page 55.

ORDERING INSULATED TERMINALS

Most uninsulated A, B, and C, series Sta-Kon Terminals can be supplied, to order, with insulated barrels. To order an Insulated Sta-Kon Terminal, place the letter R before the catalog number and the number 1 after it.

Example: Cat. No. B85 as an Insulated Terminal is Cat. No. RB851.

WIRE COMBINATIONS

which may be installed satisfactorily in B and C size uninsulated terminals and in RB and RC size Self-Insulated Insulation Grip Terminals. The resulting connections are noise-free.

Terminal Size	Two-Wire Combinations	Two-Wire Combinations	Two-Wire Combinations
B uninsulated	#22 and #22 #22 and #20 #22 and #18 #22 and #16	#20 and #20 #20 and #18 #20 and #16	#18 and #18 #18 and #16
C uninsulated	#22 and #12 #22 and #14	#20 and #14 #18 and #14	#16 and #16 #16 and #14
RB insulated	#22 and #22 #22 and #20	#20 and #20	
RC insulated	#22 and #18 #22 and #16	#20 and #18 #20 and #16 #20 and #14	#18 and #18 #18 and #16 #16 and #16

UL LISTED WIRE COMBINATIONS

For PT60 and PT70 Wire Joints

	#18	#16	#14	#12
#18	1 #18 and 3 to 8 #18			
#16	1 #16 and 3 to 7 #18 2 #16 and 1 to 8 #18 3 #16 and 1 to 7 #18 4 #16 and 1 to 4 #18 5 #16 and 1 to 4 #18 6 #16 and 1 or 2 #18 7 #16 and 1 #18	1 #16 and 2 to 6 #16		
#14	1 #14 and 2 to 8 #18 2 #14 and 1 to 9 #18 3 #14 and 1 to 3 #18 4 #14 and 1 or 2 #18	1 #14 and 1 to 6 #16 2 #14 and 1 to 4 #16 3 #14 and 1 to 3 #16 4 #14 and 1 #16	1 #14 and 1 to 4 #14	
#12	1 #12 and 1 to 8 #18 2 #12 and 1 to 4 #18	1 #12 and 1 to 4 #16 2 #12 and 1 or 2 #16	1 #12 and 1 to 3 #14 2 #12 and 1 or 2 #14	1 #12 and 1 or 2 #12 2 # 12 and 1 #12
#10	1 #10 and 1 to 6 #18	1 #10 and 1 to 6 #16		

UL LISTED WIRE COMBINATIONS

For RB4 and RC6 Insulated Wire Joints

	#18	#16	#14	#12
	For RB 4			
#18	1 #18 and 1 or 2 #18			
#16	1 #16 and 1 or 2 #18	1 #16 and 1 #16		
	For RC 6			
#14	1 #14 and 3 to 5 #18 2 #14 and 1 to 4 #18 3 #14 and 1 to 3 #18	1 #14 and 2 to 4 #16 2 #14 and 1 to 3 #16 3 #14 and 1 #16	1 #14 and 2 #14	
#12	1 #2 and 1 to 4 #18	1 #12 and 1 to 3 #16	1 #12 and 1 or 2 # 14	1 #12 and 1 #12

OBSOLETE CATALOG NUMBERS

Through successive manufacturing improvements and through alterations in the dimensions to conform to military standards, certain Sta-Kon Terminals have grown more and more alike. Now the differences are almost imperceptible. To eliminate confusion we have made obsolete the duplicate catalog numbers. The replacement terminals will hold the same wires and fit into the same spaces as the obsolete terminals.

Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.
A33	**A85**	A33G	**A85G**	B25	**B34**	B25G	**B34G**
A84	**A85**	A84G	**A85G**	B33	**B85**	B33G	**B85G**
A36	**A87**	A36G	**A87G**	B36	**B87**	B36G	**B87G**
A77	**A86**	A77G	**A86G**	B76	**B86**	B76G	**B86G**
C76	**C26**	—	—	B77	**B86**	B77G	**B86G**

STA-KON DISCONNECTS

T&B ENGINEERED

Developed originally for military use where damaged wiring must be quickly replaced, Sta-Kon Disconnects are finding more and more uses in industry. They protect electrical parts which must be removed for repairs or renewal. They simplify the assembly of electrical components made in one location and assembled in another. They are ideal for connecting small sub-assemblies into larger units.

THREE TYPES

Straight Pull

Identical tips.
Beryllium Copper Spring Coupler.
Wide Contact.
Disconnects with a quick pull.
May be insulated.

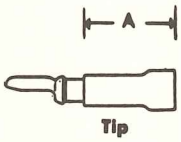
Wristlock

Identical pieces.
Double Spring Pressure.
Strong Insulation Grip.
Connects with a pull.
Won't let go in line of pull.
Won't jacknife.
May be insulated.

Swivel

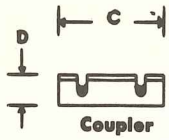
Spring bird cage snaps over ball.
Any bird cage fits any ball.
Connects at any angle.
Suitable for grounding.

TIPS



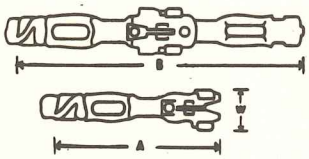
Wire Size	A	Max. Insulation Capacity	Use with Coupler No.	Cat. No.
#22-#18	.44	.115	7	A50
#16-#14	.44	.143	7	B50
#12-#10	.41	no grip	8	C50

COUPLERS



C	D	Use with Tip No.	Cat. No.
.50	.14	A50 or B50	7
.63	.23	C50 or C50B	8

WRISTLOCK



Wire Size	A—Length of one	B—Length of two	W	Cat. No.
#22-#14	.970	1.75	.25	B23

It takes two Cat. No. B23 to make one complete disconnect.

SWIVEL DISCONNECT TERMINALS

Bird Cage

Ball and Stud

Ball and Stud			Bird Cage			
Thread Size	Thread Length	Cat. No.	Wire Size	Max. Ins. Cap.	Length to center of ball socket	Cat. No.
8-32	.81	23	#22-#18	.115	.78	A156
8-32	.50	24	#16-#14	.143	.78	B156
10-32	.38	26	#12-#10	no grip	.75	C156

Note: Bird cages can be supplied Self-Insulated.

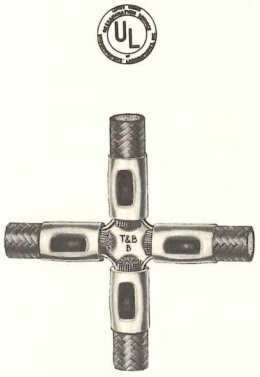
Sta-Kon Disconnects are available in many different types, including inserts for mounting in blocks. For complete listing of Disconnects, see Military Supplement, Bulletin 63.

TWO-WAY CONNECTORS

AWG Wire Range	Length	Cat. No.
No. 22-18	.90	AA2
No. 16-14	.62	BB2
No. 12-10	.81	CC2
No. 8, 9, 7	1.29	DD2
No. 6, 5	1.29	EE2
No. 4, 3	1.33	FF2
No. 2, 1	1.75	GG2

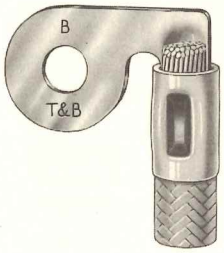
FOUR-WAY CONNECTORS

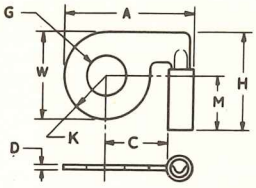
AWG Wire Range	Length	Cat. No.
No. 22-18	.89	AA4
No. 16-14	.90	BB4
No. 12-10	1.09	CC4



Hand tool WT111M will install AA, BB, and CC size terminals. Toggle tool WT115 will install DD, EE, FF, and GG size terminals.

GOOSENECK STA-KON TERMINALS



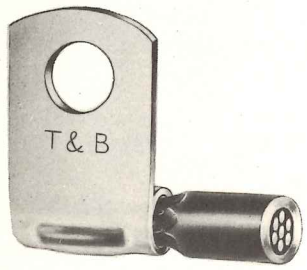


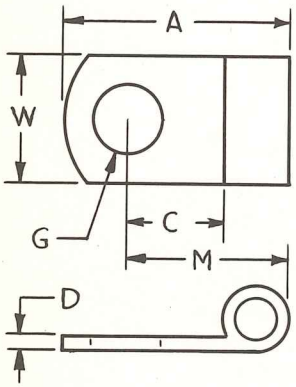
Hand tool WT119 will install A, B, and C sizes. Hand tool WT175 will install A and B sizes, and WT174 will install C sizes.

All three sizes may be installed with power tools 21060, 21070, 21687, 21676, 21677, and 21725. Complete tool listing, pages 64-67.

Wire Range	Stud Size G	A Max.	W Max.	C Min.	D	M Max.	H	K	Cat. No.
		DIMENSIONS							
AWG—No. 22-18	6	.51	.34	.23	.03	.22	.41	.16	A 89
Aircraft—AN-22, AN-18	6	.66	.44	.31	.03	.25	.47	.22	A 66
Any wire from .025" to .052" Diameter	8	.66	.44	.31	.03	.25	.47	.22	A 67
UL Listed for No. 18 AWG	10	.51	.34	.23	.03	.22	.41	.16	A 97
	10	.66	.44	.31	.03	.25	.47	.22	A 68
	6	.55	.38	.23	.03	.22	.44	.16	B 89
	6	.67	.44	.30	.03	.25	.47	.22	B 66
AWG—No. 16-14	8	.55	.38	.23	.03	.22	.44	.16	B 61
Aircraft—AN-16, AN-14	8	.67	.44	.30	.03	.25	.47	.22	B 67
Any wire from .032" to .080" Diameter	10	.55	.38	.23	.03	.22	.49	.16	B 97
UL Listed for No. 18-14 AWG	10	.67	.44	.30	.03	.25	.47	.22	B 68
	¼	.67	.44	.30	.03	.25	.47	.22	B 98
AWG—No. 12-10	6	.75	.44	.31	.04	.34	.56	.22	C 66
Aircraft—AN-12, AN-10	8	.75	.44	.31	.04	.34	.56	.22	C 67
Any wire from .051" to .125" Diameter	10	.75	.44	.31	.04	.34	.56	.22	C 68
UL Listed for No. 16-10 AWG	¼	.75	.44	.31	.04	.34	.56	.22	C 98

FLAG TYPE STA-KON TERMINALS





AB and C sizes are installed with WT119, 21060, 21070, and 21687 tools.

D, E, and F sizes are installed with WT129 and 21689 tools. G through M sizes are installed with 11032 Hydraulic Assembly and with WT127 Hand Tool using 21665-21670 Nests.

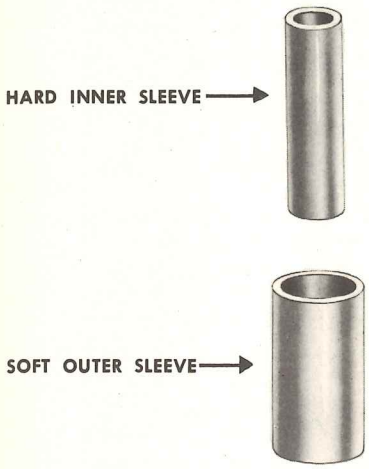
Complete tool listing, pages 64-67.

Wire Range	Stud G	DIMENSIONS A Max.	W Max.	C Min.	D	M Max.	Cat. No.
AWG—No. 22 - 14 Aircraft—AN-22—AN-14 Any wire from .025" to .080" Diameter UL Listed for No. 18 - 14 AWG	6 8 10	.55 .55 .55	.31 .31 .31	.22 .22 .22	.03 .03 .03	.39 .39 .39	AB 51 AB 52 AB 53
AWG—No. 12 - 10 Aircraft—AN-12, AN-10 Any wire from .081" to .125" Diameter UL Listed for No. 12 - 10 AWG	6 8 10	.69 .69 .69	.31 .31 .31	.24 .24 .24	.04 .04 .04	.48 .48 .48	C 51 C 52 C 53
AWG—No. 9 - 8 Aircraft—AN-8 Any wire from .123" to .175" Diameter UL Listed for No. 9 - 8 AWG	10 10 10 ¼ ¼ 5/16 ⅜	.92 .80 1.04 .94 1.04 1.06 1.14	.50 .56 .50 .50 .50 .50 .56	.29 .25 .44 .33 .44 .41 .46	.06 .06 .06 .06 .06 .06 .06	.66 .58 .77 .68 .77 .76 .81	D 226 D 236 D 826 D 271 D 871 D 272 D 273
AWG—No. 6 Aircraft—AN-6 Any wire from .169" to .222" Diameter UL Listed for No. 6 AWG	10 10 ¼ ¼ 5/16 ⅜	.97 1.10 1.01 1.10 1.12 1.20	.50 .50 .50 .50 .50 .56	.29 .44 .33 .44 .41 .46	.06 .06 .06 .06 .06 .06	.71 .84 .75 .84 .82 .87	E 226 E 826 E 271 E 871 E 272 E 273
AWG—No. 4 Aircraft—AN-4 Any wire from .219" to .280" Diameter UL Listed for No. 4 AWG	10 ¼ ¼ 5/16 ⅜	1.03 1.07 1.17 1.19 1.26	.63 .63 .63 .63 .63	.29 .33 .44 .41 .46	.07 .07 .07 .07 .07	.77 .81 .91 .89 .93	F 226 F 271 F 871 F 272 F 273
AWG—No. 2 - 1 Any wire from .267" to .355" Diameter UL Listed for No. 2 - 1 AWG	¼ ¼ 5/16 5/16 ⅜ ½	1.19 1.29 1.33 1.29 1.40 1.61	.63 .63 .63 .63 .63 .75	.33 .44 .41 .44 .46 .55	.08 .08 .08 .08 .08 .08	.93 1.03 1.01 1.03 1.06 1.15	G 271 G 871 G 272 G 872 G 273 G 275
AWG—1/0 Any wire from .351" to .390" Diameter UL Listed for 1/0 AWG	¼ ¼ 5/16 5/16 ⅜ ½	1.22 1.38 1.36 1.38 1.42 1.64	.63 .63 .63 .63 .63 .75	.33 .50 .41 .50 .46 .55	.08 .08 .08 .08 .08 .08	.96 1.12 1.04 1.12 1.09 1.18	H 271 H 871 H 272 H 872 H 273 H 275
AWG—2/0 Any wire from .379" to .440" Diameter UL Listed for 2/0 AWG	¼ 5/16 5/16 ⅜ ½	1.29 1.40 1.49 1.48 1.70	.75 .75 .75 .75 .75	.33 .41 .50 .46 .55	.10 .10 .10 .10 .10	1.03 1.10 1.19 1.15 1.25	J 271 J 272 J 872 J 273 J 275
AWG—3/0 Any wire from .431" to .500" Diameter UL Listed for 3/0 AWG	5/16 ⅜ ½	1.50 1.50 1.80	.81 .81 .81	.41 .46 .55	.11 .11 .11	1.20 1.25 1.34	K 272 K 273 K 275
AWG—4/0 Any wire from .491" to .557" Diameter UL Listed for 4/0 AWG	5/16 5/16 ⅜ ½	1.56 1.68 1.64 1.86	.81 .81 .81 .81	.41 .50 .46 .55	.11 .11 .11 .11	1.26 1.34 1.31 1.40	L 272 L 872 L 273 L 275
AWG—250 MCM Any wire from .549" to .622" Diameter UL Listed for 250 MCM AWG	5/16 5/16 ⅜ ½	1.67 1.78 1.75 1.97	1.00 1.00 1.00 1.00	.41 .50 .46 .55	.13 .13 .13 .13	1.37 1.45 1.42 1.51	M 272 M 872 M 273 M 275

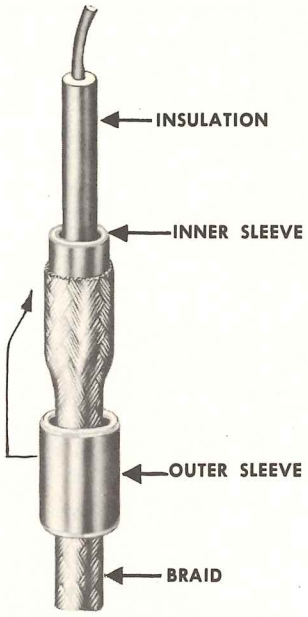
WHAT THEY DO

On shielded conductors or coaxial cable, Grounding Sheath Connectors terminate the braid neatly and quickly.

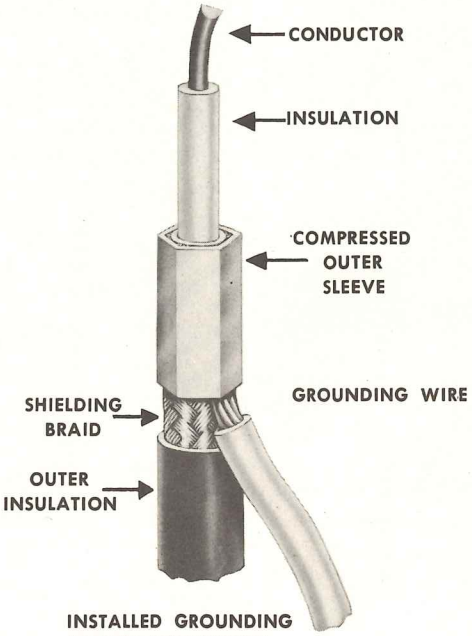
They hold the braid and the ground wire in a permanent compression joint without damaging the insulation or appreciably changing the impedance of the cable. The noise level of Grounding Sheath Connectors is so low as to be negligible.



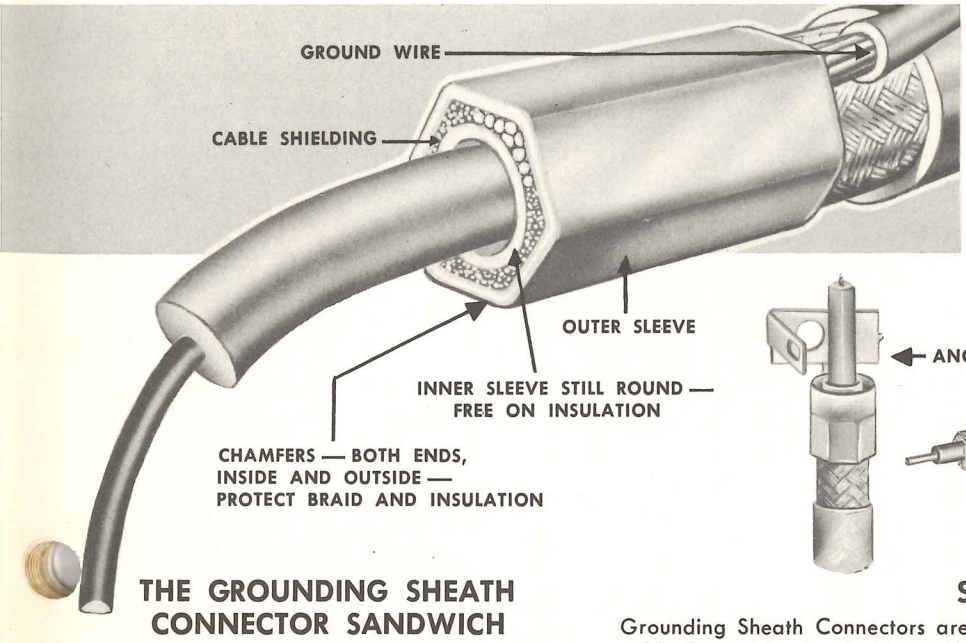
GROUNDING SHEATH CONNECTOR BEFORE INSTALLATION



GROUNDING SHEATH CONNECTOR DURING INSTALLATION



INSTALLED GROUNDING SHEATH CONNECTOR


GROUND WIRE
CABLE SHIELDING
OUTER SLEEVE
INNER SLEEVE STILL ROUND — FREE ON INSULATION
CHAMFERS — BOTH ENDS, INSIDE AND OUTSIDE — PROTECT BRAID AND INSULATION

COLOR CODING

At-a-glance Size selection

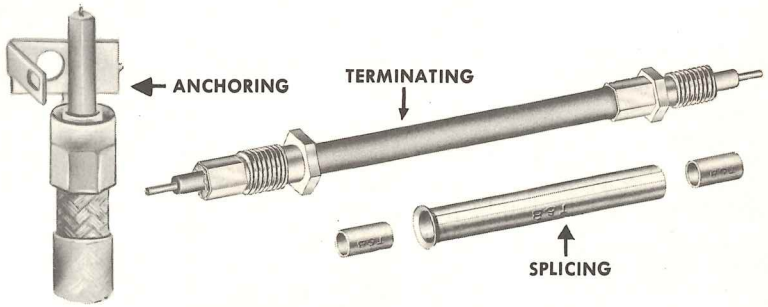
At-a-glance Tool selection

At-a-glance Inspection

All Inner and Outer Sleeves are marked with bright colors to show the size.

See table on next page.

Installing tools are color coded to match the Outer Sleeves. Accurate installation is easy.



THE GROUNDING SHEATH CONNECTOR SANDWICH

Note how the ground wire and cable shielding are permanently compressed between Inner Sleeve and Outer Sleeve. Simple tools, hand- or power-operated, make the installation.

SPECIAL USES

Grounding Sheath Connectors are often used on the non-grounded end of shielded cable for a trim termination and a positive interconnection between the strands of the braid. As shown in the center illustration, they are suitable for chassis or panel mounting. They are used at splices to connect the two ends of the shielding. With various shapes of lugs brazed to the Outer Sleeve, they are used to anchor the cable as well as to ground it.

T&B Engineers will design SPECIAL CONNECTORS for unusual applications.

HOW TO PICK THE RIGHT CONNECTOR

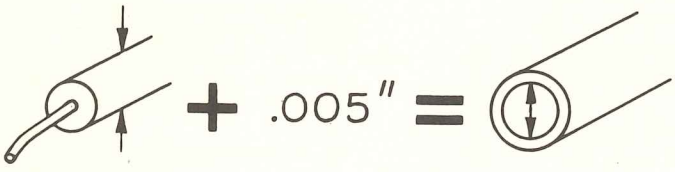
T&B ENGINEERED

FIRST WAY

1. Send us samples of your shielded cable and the grounding wire you intend to use. Specify the insulation diameter tolerance of the shielded cable.
2. Our Engineers will fit the proper Inner and Outer Sleeves on cable and recommend right installing tool.

SECOND WAY

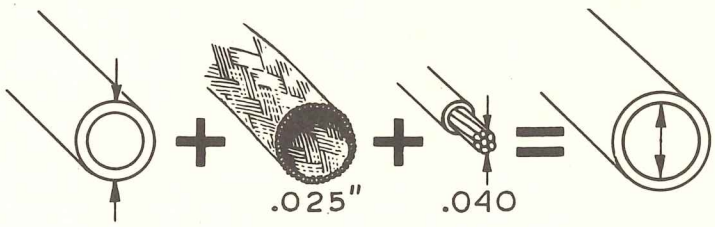
1. Choose the Inner.
   a. Find the diameter of insulation.
   b. Add .005" minimum clearance.
   c. From size chart pick the Inner with that I. D. or the nearest larger one.
2. Choose the Outer.
   a. From chart find O. D. of Inner already selected.
   b. Add .025" for thickness of single braid shielding.
   c. Add .040" for ground wire (up to #18).
   d. From size chart pick Outer with that I. D. or the nearest larger one.



*DIAMETER OF INSULATION

CLEARANCE

I. D. OF INNER SLEEVE (SEE TABLE)



O. D. OF INNER SLEEVE (SEE TABLE)

THICKNESS OF SINGLE BRAID

ALLOWANCE FOR GROUND WIRE

I. D. OF OUTER SLEEVE (SEE TABLE)†

INNER SLEEVES

Cat. No.	I.D.	O.D.	Color Code
GSB 046	.046	.070	Tin
GSB 058	.058	.083	Yellow
GSB 063	.063	.088	Red
GSB 071	.071	.096	Green
GSB 080	.080	.1035	Blue
GSB 090	.090	.1135	Orange
GSB 096	.096	.119	Purple
GSB 101	.101	.124	Yellow
GSB 109	.109	.131	Red
GSB 124	.124	.145	Green
GSB 128	.128	.152	Tin
GSB 134	.134	.156	Orange
GSB 149	.149	.179	Blue
GSB 156	.156	.193	Red
GSB 165	.165	.194	Tin
GSB 175	.175	.215	Green
GSB 187	.187	.227	Yellow
GSB 194	.194	.226	Blue
GSB 205	.205	.245	Orange
GSB 219	.219	.250	Tin
GSB 225	.225	.254	Yellow
GSB 232	.232	.263	Red
GSB 261	.261	.297	Blue
GSB 275	.275	.306	Orange
GSB 281	.281	.331	Yellow
GSB 287	.287	.327	Tin
GSB 297	.297	.335	Red
GSB 312	.312	.362	Purple

OUTER SLEEVES

Cat. No.	I.D.	Color Code
GSC 101	.101	Tin
GSC 128	.128	Blue
GSC 149	.149	Purple
GSC 156	.156	Yellow
GSC 175	.175	Blue
GSC 187	.187	Orange
GSC 194	.194	Red
GSC 199	.199	Tin
GSC 205	.205	Yellow
GSC 219	.219	Green
GSC 225	.225	Purple
GSC 232	.232	Orange
GSC 261	.261	Yellow
GSC 275	.275	Tin
GSC 281	.281	Purple
GSC 287	.287	Blue
GSC 297	.297	Green
GSC 312	.312	Yellow
GSC 327	.327	Tin
GSC 348	.348	Orange
GSC 405	.405	Red
GSC 460	.460	Tin

*Sometimes actual cable varies from its specification. If there is any doubt that the chosen Inner will fit over the Insulation, use the next larger Inner.

†If the table does not show the exact I. D. calculated, select the next larger size.

The Outer Sleeve determines which hexagonal die should be used. For example, the fifth line of the table shows that GSC175 may be installed with tools WT203, WT231, and with dies 11973 and 21503.

Hand installing tools are of the Straight Line Action type. These improved Shure Stake Tools close the dies in a straight line instead of in an arc, preventing the Outer Sleeve from flashing as it is compressed.

Installing tools are color coded to match the Outer Sleeves.

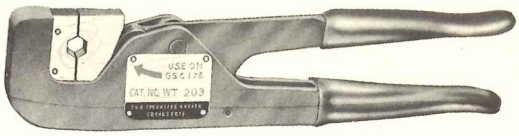
On special order the hex die faces may be engraved. This engraving embosses an identifying letter on the Outer Sleeve during the installation.

Tool WT203 has a single hexagonal opening and will install just one Grounding Sheath Connector, GSC175. However, it can be ordered with two or three hexagonal openings. The combination tool number, WT203-08-12 specifies a tool which will install GSC175, GSC219, and GSC275. This combination tool has the same three openings that are in tools WT203, WT208, and WT212. The combination catalog number is made up of the lowest catalog number, WT203, plus the last two digits of the other two catalog numbers, WT208 and WT212.

Any combination of three small hexagonal openings will fit into one tool. Only two of the larger hexagonal sizes (WT214 and larger) can be put into one tool.

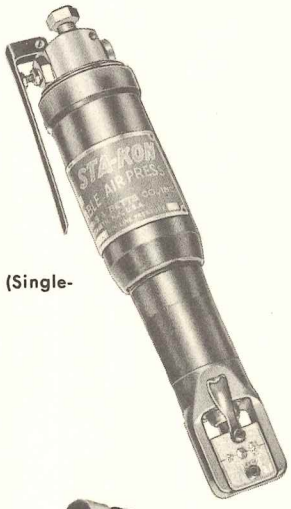
In the same way the dies in the last column can be ordered with multiple hexagonal openings. For instance, die number 21503-08-12 has three hexagonal openings that will install GSC175, GSC219, and GSC275. Only two large hexagonal openings (21514 and larger) will fit into one die.

The tools listed in the second column are all multiple-die tools. Each will install several Grounding Sheath Connectors. The dies for the air-hydraulic tool shown in the third column are supplied only as single opening dies.

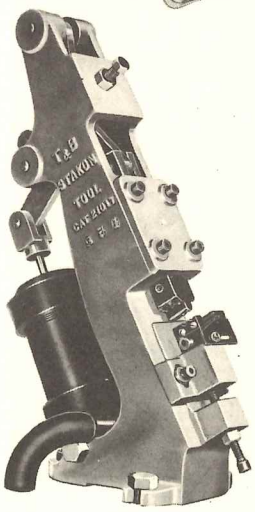


Cat. No. WT200 to WT219
Straight Line Shure Stake Tools with single-hex dies
(Multiple-hex dies may be ordered. See directions at left.)

Cat. No. WT230 to WT236
Straight Line Shure Stake Tools with standard combination multiple-hex dies



Cat. No. 11901
Air-Hydraulic Tool (Single-hex dies only)



Cat. No. 21017
Air-Powered Bench Tool with single-hex dies
(Multiple-hex dies may be ordered. See directions above.)

OUTER SLEEVES

Cat. No.	I. D.	Color Code	Single-Hex Straight-Line Shure Stakes Tool Cat. No.	Multiple-Hex Straight-Line Shure Stakes Tool Cat. No.	Single-Hex Dies for 11901 Air-Hydraulic Tool Die Cat. No.	Single-Hex Dies for 21016,21017 Tools Die Cat. No.
GSC 101	.101	Tin	WT219	WT231	11989	21519
GSC 128	.128	Blue	WT200	WT230	11970	21500
GSC 149	.149	Purple	WT201	WT231	11971	21501
GSC 156	.156	Yellow	WT202	WT230	11972	21502
GSC 175	.175	Blue	WT203	WT232	11973	21503
GSC 187	.187	Orange	WT206	WT232	11976	21506
GSC 194	.194	Red	WT206	WT232	11976	21506
GSC 199	.199	Tin	WT206	WT232	11976	21506
GSC 205	.205	Yellow	WT208	WT233	11978	21508
GSC 219	.219	Green	WT208	WT233	11978	21508
GSC 225	.225	Purple	WT209	WT230	11979	21509
GSC 232	.232	Orange	WT210	WT232	11980	21510
GSC 261	.261	Yellow	WT211	WT231	-11981	21511
GSC 275	.275	Tin	WT212	WT233	11982	21512
GSC 281	.281	Purple	WT214*	WT234*	11984	21514
GSC 287	.287	Blue	WT214*	WT234*	11984	21514
GSC 297	.297	Green	WT214*	WT234*	11984	21514
GSC 312	.312	Yellow	WT215*	WT235*	11985	21515
GSC 327	.327	Tin	WT216*	WT234* / WT236*	11986	21516
GSC 348	.348	Orange	WT217*	WT235*	11987	21517
GSC 405	.405	Red	WT218*	WT236*	11988	21518
GSC 460	.460	Tin	Special	Special	Special	Special

* Straight Line Shure Stake Tool with long handle.

RAILWAY SIGNAL STA-KON TERMINALS

T&B ENGINEERED

Made from high-conductivity copper, these terminals have small over-all dimensions to afford wide clearance of terminal posts and easy fits in Railway Signal terminal blocks. They are designed to make terminal insulation unnecessary. Their use reduces construction costs and speeds maintenance work.

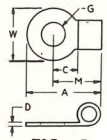


FIG. 1

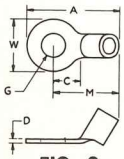


FIG. 2

FIG 3

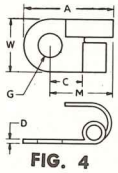


FIG. 4

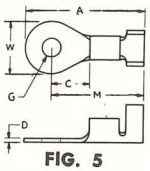


FIG. 5

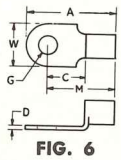


FIG. 6

Use Hand Tool, Cat. No. WT-119, to install Flag Type Terminals or WT-139 for SIG 14 Terminals and WT-140 for SIG 9C Terminals. Use Hand Tool, Cat. No. WT-111M, to install straight terminals, and Cat. No. WT-110M for straight terminals with insulation grip.

Complete tool listing, pages 64-67.

Wire Size	Stud Size G	DIMENSIONS Fig.	A max.	W max.	C min.	D	M max.	Cat. No.
#18-#14	¼	1	.73	.57	.26	.03	.45	SIG14B
#18-#14	¼	2	.89	.57	.23	.03	.61	SIG14B3
#12- #9	¼	1	.81	.57	.25	.04	.53	SIG9C
#12- #9	10	1	.81	.57	.25	.04	.53	SIG9C2
#12- #9	¼	2	.98	.57	.23	.04	.67	SIG9C3

CAB WIRING STA-KON TERMINALS

Rugged terminals for #9 to #14 wire as used in the control wiring of locomotives. Provided with an insulation grip, they withstand severe vibration.

For Small Insulation (Maximum 7/32")

	8	3	.90	.57	.28	.04	.62	C62GL
	10	3	.90	.57	.28	.04	.62	C63GL
	¼	3	.90	.57	.28	.04	.62	C64GL
#14	8	4	.90	.57	.28	.04	.62	C62GR
#9	10	4	.90	.57	.28	.04	.62	C63GR
	¼	4	.90	.57	.28	.04	.62	C64GR
	8	5	1.27	.57	.33	.04	.99	C90G
	10	5	1.27	.57	.33	.04	.99	C91G
	¼	5	1.27	.57	.33	.04	.99	C92G

For Large Diameter Insulation (Maximum 5/16")

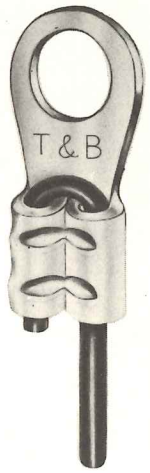
	8	3	.90	.57	.28	.04	.62	C52GL
	10	3	.90	.57	.28	.04	.62	C53GL
	¼	3	.90	.57	.28	.04	.62	C54GL
#14	8	4	.90	.57	.28	.04	.62	C52GR
#9	10	4	.90	.57	.28	.04	.62	C53GR
	¼	4	.90	.57	.28	.04	.62	C54GR
	8	5	1.27	.57	.33	.04	.99	C80G
	10	5	1.27	.57	.33	.04	.99	C81G
	¼	5	1.27	.57	.33	.04	.99	C82G

CONTROL CABLE STA-KON TERMINAL FOR BLOCKS

Designed especially to connect Control Cable, sizes #12 to #9, to Standard Terminal Blocks including Burke #3004, #6004, and #7006; General Electric #EB-1 and Laminated; Charmond #2403; Statesco Laminated, etc. Installs with standard Cat. No. WT-111M tool.

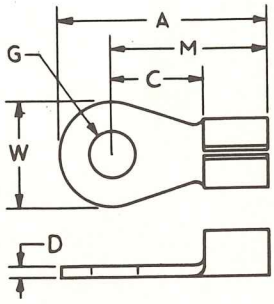
#12- #9	.196	6	.92	.46	.36	.04	.70	C-2

Heater Wire Terminals solve the problem of making easy connections to resistance wires used in toasters, irons, and heaters. They make permanent terminations to flat ribbon, solid round wire, or stranded wire. Made from special heat-resisting alloy, these terminals in repeated tests have outlasted the heater wire on which they were installed.



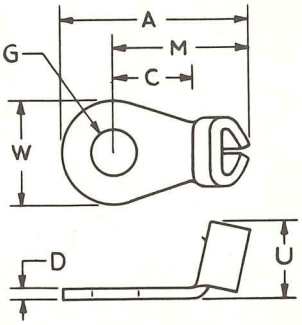
Stud Size G	Flat Ribbon Width	Flat Ribbon Max. Thickness	Solid Round AWG	Stranded Diam.	DIMENSIONS A max.	W max.	C min.	D	M max.	Cat. No.
4			#24-#22		.61	.31	.26	.03	.47	NW 20
6	3/64		#24-#22		.61	.31	.26	.03	.47	NW 21
6					.61	.31	.26	.03	.47	NW 22
8	to	.021	#24-#22	.020 to .036	.61	.31	.26	.03	.47	NW 23
10	1/16		#24-#22		.61	.31	.26	.03	.47	NW 24*
4			#20-#18		.64	.31	.26	.03	.48	NW 50
6	3/32		#20-#18		.64	.31	.26	.03	.48	NW 51
8	to	.030	#20-#18	.032 to .065	.64	.31	.26	.03	.48	NW 52
10	1/8		#20-#18		.64	.31	.26	.03	.48	NW 53
12			#20-#16		.64	.31	.26	.03	.48	NW 54
4			#16-#14		.67	.31	.25	.04	.51	NW 80
6	5/32		#16-#14		.67	.31	.25	.04	.51	NW 81
8	to	.040	#16-#14	.040 to .095	.67	.31	.25	.04	.51	NW 82
10	3/16		#16-#14		.67	.31	.25	.04	.51	NW 83
12			#16-#14		.67	.31	.25	.04	.51	NW 84

*With 45° reverse bend.



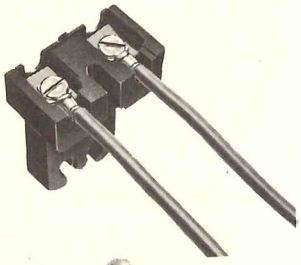
UPRIGHT HEATER WIRE TERMINALS

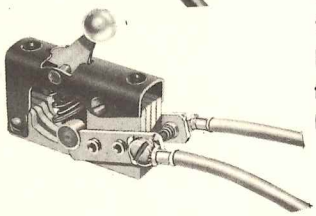
					U	A max.	W max.	C min.	D	M max.	
4			#24-#22		.24	.50	.31	.24	.03	.24	NW 20 U
6	3/64		#24-#22		.24	.50	.31	.24	.03	.24	NW 21 U
8	to	.021	#22-#22	.020 to .036	.24	.50	.31	.24	.03	.24	NW 22 U
10	1/16		#24-#22		.24	.50	.31	.24	.03	.24	NW 23 U
4			#20-#18		.27	.54	.31	.24	.03	.20	NW 50 U
6	3/32		#20-#18		.27	.54	.31	.24	.03	.20	NW 51 U
8	to	.030	#20-#18	.032 to .065	.27	.54	.31	.24	.03	.20	NW 52 U
10	1/8		#20-#18		.27	.54	.31	.24	.03	.20	NW 53 U
4			#16-#14		.30	.57	.31	.24	.04	.30	NW 80 U
6	5/32		#16-#14		.30	.57	.31	.24	.04	.30	NW 81 U
8	to	.040	#16-#14	.040 to .095	.30	.57	.31	.24	.04	.30	NW 82 U
10	3/16		#16-#14		.30	.57	.31	.24	.04	.30	NW 83 U
12			#16-#14		.30	.57	.31	.24	.04	.30	NW 84 U



Use hand tool Cat. No. WT-102 to install NW 20 Terminals. Use Shure Stake Tool, Cat. No. WT-137, to install NW 50 and NW 80 Terminals. For power tools and dies, see pages 64-67.

STA-KON JUNIOR TERMINALS





Particularly Designed For Installations Where Small Terminals Are Required

The T&B Sta-Kon Junior Terminal was designed for confined working areas, narrow apertures, or close spacing between barriers. It is ideal for applications requiring small space and high conductivity, but not rugged mechanical strength. To meet these requirements, T&B engineers designed a remarkably efficient wire terminal for either production line installation with power tools, or installation with hand tools. The over-all length of these terminals is at a minimum, with tongues either slotted or ring type for easy access to small areas, particularly small blocks. Because they are made from one piece of copper alloy, the electrical connection made by these terminals to wire is unusually efficient. Sta-Kon Junior Terminals far exceed Underwriters' Laboratories' electrical and tensile strength requirements.

Sta-Kon Jr. Terminals fit, among others, these barrier type terminal strips

V-122 for 140 series Jones Block
V-122 for 600 series Kulka Block
V-124 for 141 series Jones Block
V-124 for 601 series Kulka Block
V-127 for 142 series Jones Block
V-128 for 150 series Jones Block
W-128 for 150 series Jones Block
W-126 for 39009 Arrow, Hart & Hegeman Block

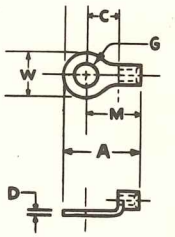


FIG. 2

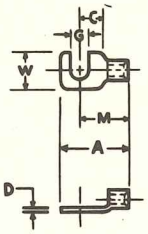
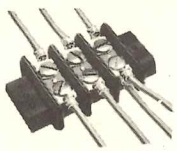


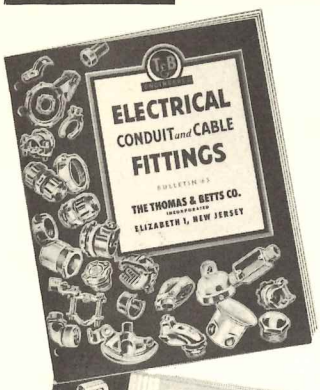
FIG. 1

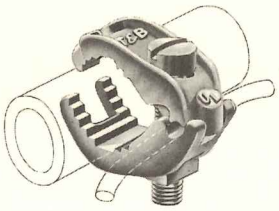


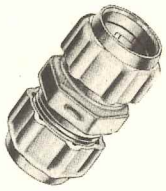
For V and W Series Sta-Kon Junior Terminals, use Cat. No. WT 134 Hand Tool.

Complete tool listing, pages 64-67.

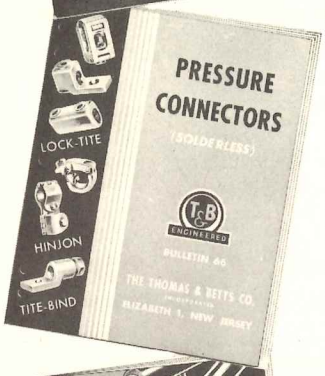
Wire Size	Stud Size G	DIMENSIONS FIG.	A max.	W max.	C min.	D	M max.	Cat. No.
AWG #20 to #14 Str. #20 to #16 Sol.	6	2	.56	.32	.21	.03	.40	V 33
	8	2	.57	.32	.22	.03	.42	V 77
	10	2	.57	.32	.22	.03	.41	V 36
	4	2	.47	.25	.15	.03	.34	V 132
	6	2	.48	.23	.13	.03	.35	V 133
	5	1	.45	.25	.12	.03	.32	V 120
	5	1	.50	.28	.13	.03	.35	V 122
	6	1	.45	.25	.12	.03	.32	V 121
	6	1	.50	.28	.13	.03	.35	V 123
	6	1	.57	.32	.18	.03	.38	V 124
	6	1	.63	.41	.21	.03	.41	V 126
	8	1	.58	.32	.17	.03	.39	V 125
	8	1	.63	.41	.23	.03	.41	V 127
	10	1	.63	.41	.22	.03	.41	V 128
AWG #16 to #10 Str.	6	2	.67	.35	.23	.03	.51	W 33
	8	2	.66	.34	.21	.03	.48	W 77
	10	2	.66	.35	.22	.03	.49	W 36
	6	1	.79	.44	.30	.03	.55	W 126
	8	1	.79	.45	.31	.03	.55	W 127
	10	1	.79	.44	.26	.03	.55	W 128



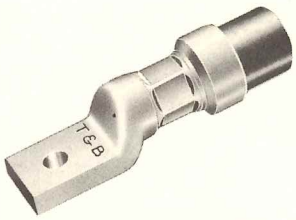




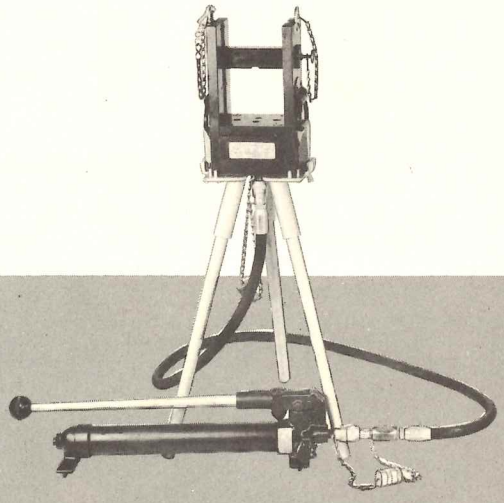
A complete line of connectors and fittings for all raceways and all cables. Bulletin 65

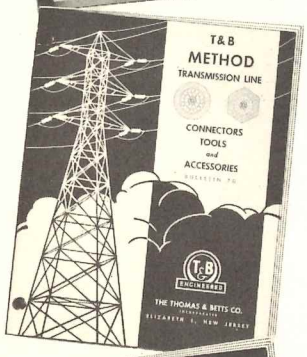


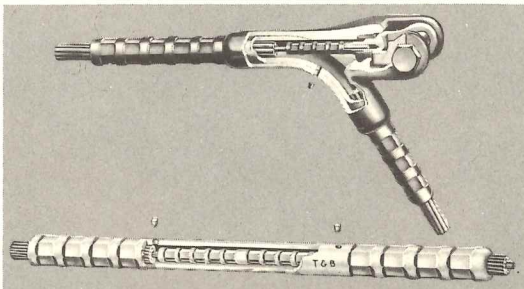
Pressure connectors for every wiring need—#14 to 2000 MCM. Bulletin 66.



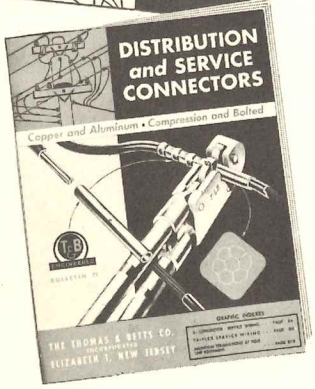
Compression terminals for industrial use and hydraulic installing tools. Bulletin 67

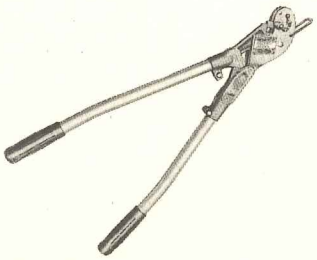


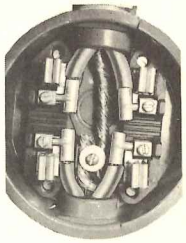




Transmission line compression fittings and tools for copper and ACSR lines. Bulletin 70

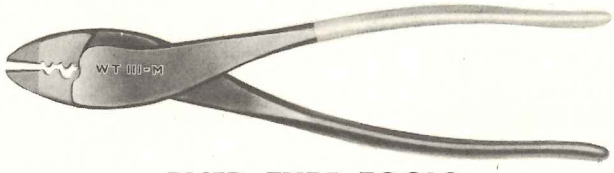






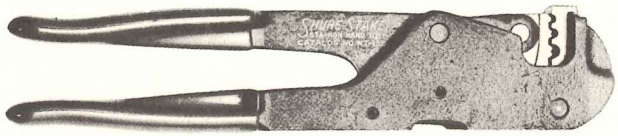
Distribution and Service splicers for copper, aluminum, and ACSR. Bulletin 71

STA-KON TOOLS



PLIER TYPE TOOLS

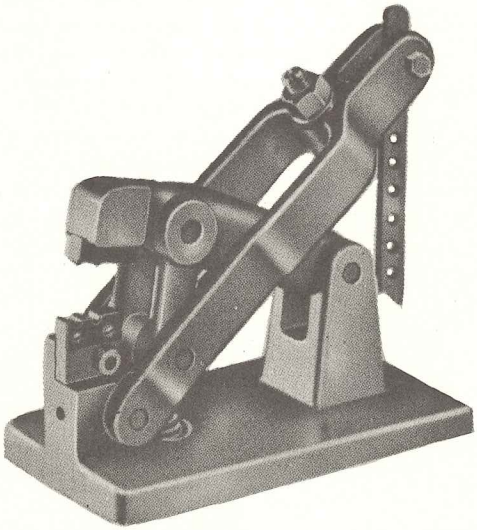
Tools of the plier type are trim, convenient devices for installing A, B, and C sizes of Sta-Kon Terminals. Their wide variety makes it possible to install any kind of small Sta-Kon Terminal by hand.



THE SHURE STAKE TOOL

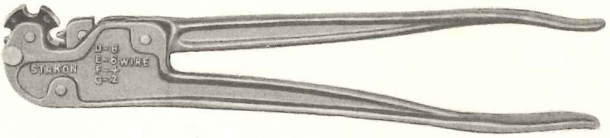
perfect installations . . . easily

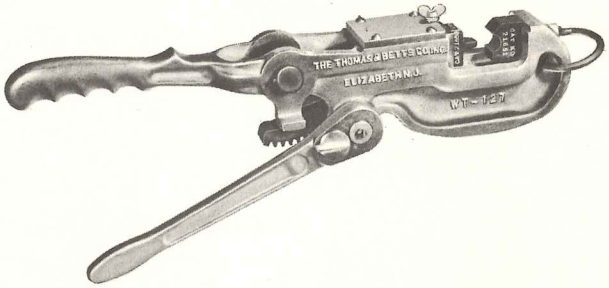
Built into the Shure Stake Tool is a ratchet and pawl device which holds the terminal until the compression has been completed. Perfection is automatic. The terminal cannot be removed from the tool until the staking is finished. Because it works on the toggle principle, like a rock crusher, the tool produces great staking power with little hand pressure. It is an ideal tool for A, B, and C size terminals.



FOOT-POWER BENCH TOOL

The 21016 Foot-Power Tool is the ideal way to get bench tool production speed at low cost. Its various dies mean utmost versatility in installing the smallest size terminals.





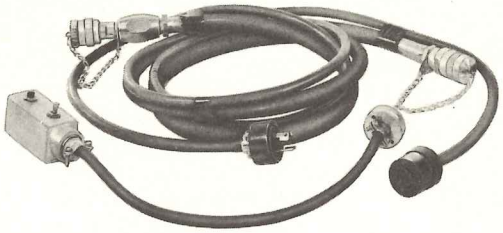
TOGGLE TOOLS

Toggle Tools come in two types: the straight handle type shown above and the ratchet type shown below. The straight handle type is for the middle range of terminals, D, E, F, and G. The aluminum ratchet tool, with its quadrant gear and great power, is made to install the largest Sta-Kon Terminals, G through M sizes.

THE 100-TO-1 TOOL

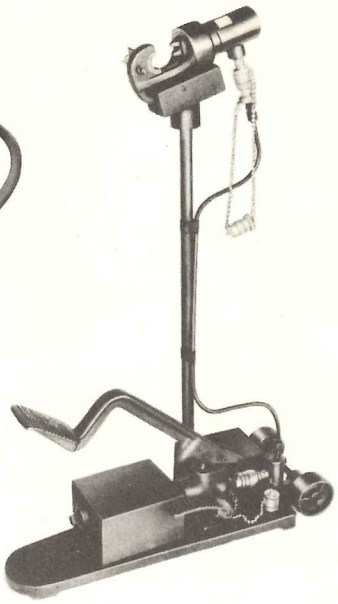
hydraulic power . . . in the hand

The 100-To-1 Tool is unique. It has the great power of a hydraulic tool, the effortless operation of compressed air power; yet it is small enough and light enough (40 ounces) to be hand held. Its slim and compact form develops 100 pounds' pressure for every ounce of its weight. With its interchangeable dies it will install A, B, and C sizes of single stake or double stake terminals, insulation grip or non-grip terminals, self-insulated or bare terminals, and even Grounding Sheath Connectors. It is especially suitable for day-long production on wiring harnesses or anywhere that the tool must be brought to the work. It uses shop air pressure, hand or foot triggering, open or closed die yoke.



ELECTRIC HYDRAULIC PUMP

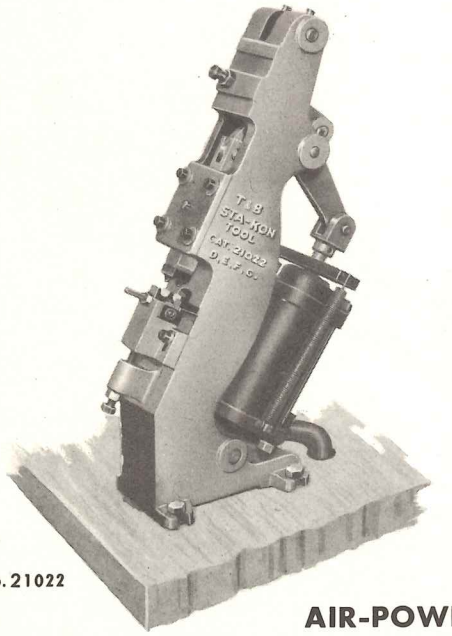
Remote controlled, electric motor-driven pump furnishes effortless hydraulic power for all T&B installing heads, seven-ton to forty-ton. Controlled hydraulic pressure of 10,000 pounds per square inch is available at the flick of a switch. With 11015 or 11016 seven-ton head, it is suitable for the production installation of G to M Sta-Kon Terminals.



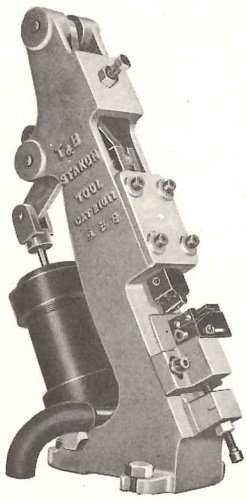
PORTABLE HYDRAULIC ASSEMBLIES

hydraulic power . . . on wheels

The Cat. No. 11030 Sta-Kon Assembly is a whole seven-ton hydraulic system—foot pump, hose, and head—mounted on a convenient, portable stand. It is self-contained, independent, and can be wheeled anywhere in the shop. It will install all the large size insulated Sta-Kon Terminals from D size through M. Uninsulated G through M terminals are part of its regular production installations. Foot-operated, it leaves the operator's hands free to handle the terminal and the cable. Cat. No. 11029 is the same tool adapted for Flag Type terminals.



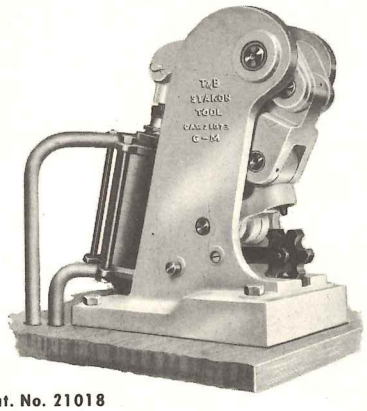
Cat. No. 21022



Cat. No. 21017

AIR-POWERED BENCH TOOLS

These tools are heavy duty, high speed production machines. They operate on standard shop air pressures of 60 to 125 psi. With its various dies, each tool will install several sizes and types of terminals. Taken as a whole these air-powered bench tools will install all standard Sta-Kon Terminals, insulated or uninsulated, A size through M.



Cat. No. 21018

T&B *Tool Manual* gives complete information about parts and maintenance of all T&B Tools.

STA-KON TOOL CHART

T&B ENGINEERED

KIND OF TERMINAL	STAKE	SIZE	HAND TOOLS PLIER TYPE TOOL CAT. NO.	HAND TOOLS SHURE STAKE TOOL CAT. NO.	HAND TOOLS TOGGLE TYPE TOOL CAT. NO.
RING	SINGLE	A, B, C	WT111M	WT131	
	SINGLE	D, E, F		WT172 (D only)	WT115*
	SINGLE	G-M			WT127G-M
RING	DOUBLE	A, B		WT130, WT174	
	DOUBLE	B, C		WT130, WT175	
	DOUBLE	D, E, F			WT149*
INSULATION GRIP	SINGLE	AG, BG, CG	WT110M	WT135	
FLAG	SINGLE	AB, C	WT119		
	SINGLE	D, E, F, G			WT129*
	SINGLE	G-M			WT127&21657
FLAG	DOUBLE	AB		WT175	
	DOUBLE	C		WT174	
	DOUBLE	D, E, F, G			WT169*
INSULATED WIRE JOINTS		RB4	WT105M	WT132	
		RC6	WT105M	WT133	
LARGE SIZE SELF-INSULATED		RD-RF			WT118*

* Use WT116 Adapter for bench mounting.

STA-KON TOOL CHART

T&B ENGINEERED

KIND OF TERMINAL	STAKE	SIZE	HAND TOOLS PLIER TYPE TOOL CAT. NO.	HAND TOOLS SHURE STAKE TOOL CAT. NO.
SELF-INSULATED INSULATION GRIP		RA, RB, RC		WT145
INSULATED TWO-WAY		RA, RB, RC	WT105M	
PIGTAIL		PT60, PT70	WT111M	
STA-KON JUNIOR		V, W		WT134
HEATER WIRE		NW20, NW50 NW80	WT102	WT137 WT137
RAILWAY SIGNAL	SINGLE	SIG14B	WT103	WT139
		SIG9C	WT103	WT140
TELEVISION	SINGLE	A150-152	WT165	
GROUNDING SHEATH CONNECTORS	HEX	GSC Series		WT230 series (see p. 59

SIZE GUIDE

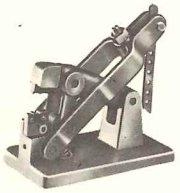
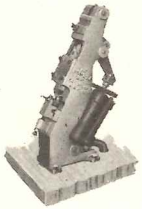
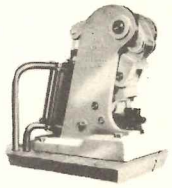
TERMINAL SIZE	AWG WIRE RANGE	WIRE DIAMETER
A	22-18	.025-.052
AB	18-14	.025-.080
B	16-14	.032-.080
C	12-10	.051-.125
D	9-7	.123-.175
E	6-5	.169-.222
F	4-3	.219-.280

SIZE GUIDE

TERMINAL SIZE	AWG WIRE RANGE	WIRE DIAMETER
G2	2	.267-297
G	1	.298-355
H	1/0	.351-.390
J	2/0	.379-.440
K	3/0	.431-.500
L	4/0	.491-.557
M	250 MCM	.549-.622

STA-KON TOOL CHART

T&B ENGINEERED

KIND OF TERMINAL	STAKE	SIZE	PRODUCTION TOOLS									
			FOOT-POWERED		AIR-POWERED		AIR-POWERED		AIR-POWERED		AIR-HYDRAULIC 100-TO-1 TOOL		HYDRAULIC	
			 CAT. NO. 21016 TOOL ONLY		CAT. NO. 21017 TOOL ONLY		 CAT. NO. 21022 TOOL ONLY		 CAT. NO. 21018 TOOL ONLY		CAT. NO. 11901 TOOL ONLY		Cat. No. 11029, 11030 Assembly Without Die	
			Cat. No. Tool & Die	Cat. No. Die only	Cat. No. Tool & Die	Cat. No. Die only	Cat. No. Tool & Die	Cat. No. Die only	Cat. No. Tool & Die	Cat. No. Die only	Cat. No. Tool & Die	Cat. No. Die only	Cat. No. Tool & Die	Cat. No. Die only
RING	SINGLE	A, B, C	21060	21637	21070	21637	21687	21637*			11931	11950		
	SINGLE	D, E, F												21064
	SINGLE	D, E, F, G					21072	21640	~~21073~~	~~21628~~	Wrong Pcs H-Holmes + Dick		~~11031~~	~~21019~~
	SINGLE	G-M							21073	21628			11031	21019
RING	DOUBLE	A, B, C	21676	21625	21677	21625	21725	21625*			11933	11951		
	DOUBLE	D, E, F, G					21697	21631					11039	11050
	DOUBLE	G-M							21699	21629			11038	21013
INSULATION GRIP	SINGLE	A, B	21060G	21638	21070G	21638	21688	21638*			11939	11954		
	SINGLE	C			21682	21633	21694	21633*			11939	11954		
INSULATION GRIP	DOUBLE	A, B, C			21695	21632	21696	21632*			11941	11955		
FLAG	SINGLE	AB, C	21060	21637	21070	21637	21687	21637*						
	SINGLE	D, E, F, G				21031	21689	21031						
	SINGLE	J, K, M								21626				
	SINGLE	G-M											11032	11065
FLAG	DOUBLE	AB, C	21676	21625	21677	21625	21725	21625*						
	DOUBLE	D, E, F, G					21698	21630						
	DOUBLE	G-M							21727	21627			11037	11049
INSULATED WIRE JOINTS		RB4, RC6	21681	21038	21685	21038	21730	21038*			11937	11953		
SELF-INSULATED INSULATION GRIP		RA, RB, RC	21678	21634	21728	21634	21729	21634*			11935	11952		
LARGE SIZE SELF-INSULATED		RD-RF RG-RM					21675	11084					11033	11051
									21726	11085			11034	11056
INSULATED TWO-WAY		RA, RB, RC	21681	21038	21685	21038	21730	21038*						
STA-KON JUNIOR	DOUBLE	V, W	21679	21034M	21686	21034M								

* Requires 21639 Adapter Block.

STA-KON TERMINAL AND WIRE CHART

T&B ENGINEERED

Use Sta-Kon Cat. Nos. Beginning	AWG. No.[1]	Air Force–Navy Aircraft[2]	Navy Shipboard[3]	Individual Strands No.	Individual Strands Diam. Inches	Whole Conductor Cir. Mil Area	Whole Conductor Diam. Inches
A	22		3/5 (1)	1	.025	642	.025
AB	22		3/5 (7)	7	.010	703	.030
		AN-22		7	*	704	.032
			½ (21)	21	.005	525	.028
	20		1 (1)	1	.032	1,022	.032
	20			7	.012	1,024	.036
A	20			10	.010	1,005	.040
AB	20			19	.007	1,022	.037
	20			26	.006	1,034	.039
		AN-20		7	*	1,119	.040
			1 (7)	7	.013	1,119	.038
			1 (10)	10	.010	1,005	.038
			1 (26)	26	.006	1,034	.042
	18		1½ (1)	1	.040	1,624	.040
A	18		1½ (7)	7	.016	1,624	.049
AB	18		1½ (16)	16	.010	1,608	.049
	18			19	.009	1,624	.046
	18		1½ (41)	41	.006	1,630	.049
		AN-18	2 (7)	7	.016	1,779	.048
	16		2½ (1)	1	.051	2,583	.051
AB	16			7	.019	2,583	.058
B	16			19	.012	2,601	.058
	16			26	.010	2,613	.059
	16			65	.006	2,580	.058
		AN-16	2½ (19)	19	.011	2,407	.061
			2½ (26)	26	.010	2,613	.061
AB	14			1	.064	4,107	.064
B	14			7	.024	4,107	.073
	14			19	.015	4,107	.074
	14			37	.011	4,107	.074
C	14			14	.009	4,157	.083
	14			104	.006	4,128	.074
AB		AN-14		19	*	3,830	.076
B			3 (7)	7	.020	2,828	.060
			3 (19)	19	.013	3,036	.063
			4 (1)	1	.064	4,107	.064
			4 (7)	7	.025	4,497	.076
			4 (19)	19	.014	3,828	.072
			4 (41)	41	.010	4,121	.077
	12			1	.081	6,530	.081
	12			7	.031	6,530	.092
	12			19	.019	6,530	.093
	12			37	.013	6,530	.093
C	12			49	.012	6,593	.104
	12			65	.010	6,533	.093
	12			104	.008	6,574	.094
	12			165	.006	6,559	.095
		AN-12	6 (19)	19	.018	6,088	.096
			6 (7)	7	.031	6,512	.092
			6 (65)	65	.010	6,533	.097
	10			1	.102	10,380	.102
	10			7	.039	10,380	.116
C	10			19	.023	10,380	.117
	10			37	.017	10,443	.117
D	10			49	.015	10,445	.131
	10			104	.010	10,452	.116
		AN-10		37	*	10,380	.117
C			9 (7)	7	.036	9,016	.108
			9 (37)	37	.016	9,402	.109
			9 (90)	90	.010	9,045	.120
	9			7	.043	13,090	.130
			14 (7)	7	.045	14,340	.136
	8			7	.049	16,510	.146
D	8			19	.030	16,510	.148
	8			37	.021	16,510	.148
	8			49	.018	16,586	.166
	7			1	.144	20,820	.144
		AN-8		133	.011	16,864	.167
			14 (7)	7	.045	14,340	.136
			14 (140)	140	.010	14,070	.145
			17 (33)	33	.011	16,824	.169
	6			7	.061	26,250	.184
	6			19	.037	26,250	.186
E	6			37	.027	26,250	.186
	6			49	.023	26,146	.208
	6	AN-6		133	.014	26,813	.218
F	6			661	.006	26,274	.259
	5			1	.181	33,100	.181
			20 (49)	7X7	.020	19,800	.180
			23 (7)	7	.057	22,800	.171
E			23 (228)	19X12	.010	22,190	.190
			26 (49)	7X7	.023	26,250	.210
			27 (133)	133	.014	26,800	.213

[1] Commercial Wire Tables.
[2] MIL-W-5086
[3] MIL-E-16366 A
* Strand diameter not specified.

Use Sta-Kon Cat. Nos. Beginning	AWG. No.[1]	Air Force — Navy Aircraft[2]	Navy Shipboard[3]	Individual Strands No.	Individual Strands Diam. Inches	Whole Conductor Cir. Mil Area	Whole Conductor Diam. Inches
F	4			7	.077	41,740	.232
	4			19	.047	41,740	.235
	4			37	.034	41,740	.235
	4			49	.029	41,780	.263
	4			133	.018	41,670	.266
	3			1	.229	52,630	.229
		AN-4		133	*	42,613	.272
			30 (304)	19X16	.010	30,550	.220
			33 (336)	7X48	.010	33,370	.235
			40 (19)	19	.045	38,910	.226
			42 (49)	7X7	.029	41,740	.260
			42 (209)	19X11	.014	42,110	.260
			50 (19)	19	.051	49,080	.254
G2	2			7	.097	66,370	.292
	2			19	.059	66,370	.296
	2			37	.042	66,370	.297
G	2			49	.037	66,356	.331
	2			133	.022	66,140	.335
		AN-2		663	*	66,832	.345
			53 (532)	19X28	.010	53,470	.304
G2			60 (37)	37	.040	60,090	.282
G1			60 (304)	19X16	.014	61,260	.310
			66 (133)	19X7	.022	66,370	.330
			75 (37)	37	.045	75,780	.317
	1			7	.109	83,690	.328
	1			19	.066	83,690	.332
	1			37	.048	83,690	.333
	1			61	.037	83,690	.333
H	1			133	.025	83,690	.377
	1			259	.018	83,916	.378
		AN-1		812	*	81,807	.384
			83 (418)	19X22	.014	84,230	.380
J			84 (2107)	2107	*	83,690	.410
H	1/0			7	.123	105,500	.368
	1/0			19	.075	105,500	.373
	1/0			37	.053	105,500	.374
	1/0			61	.042	105,500	.374
J	1/0			133	.028	105,761	.423
	1/0			259	.020	105,672	.424
		AN-0		1033	*	104,118	.432
H			100 (61)	61	.040	99,060	.363
J			105 (259)	37X7	*	105,500	.410
K			105 (2646)	2646	*	105,500	.460
J	2/0			7	.138	133,100	.414
	2/0			19	.084	133,100	.419
	2/0			37	.060	133,100	.420
	2/0			61	.047	133,100	.420
K	2/0			133	.032	132,800	.474
	2/0			259	.023	133,462	.477
		AN-00		1327	*	133,665	.490
J			125 (61)	61	.045	124,900	.407
K			133 (259)	37X7	*	133,100	.460
			133 (684)	19X36	.014	137,800	.480
L			133 (3325)	3325	*	133,100	.520
K			150 (61)	61	.051	157,600	.457
	3/0			7	.155	167,800	.464
	3/0			19	.094	167,800	.470
	3/0			37	.067	167,800	.471
	3/0			61	.052	167,800	.472
L	3/0			133	.036	167,607	.533
	3/0			259	.026	167,402	.536
M	3/0			4227	.006	168,023	.610
L			150 (760)	19X40	.014	153,100	.510
			168 (427)	61X7	*	167,800	.520
	4/0			7	.174	211,600	.522
	4/0			19	.106	211,600	.528
	4/0			37	.076	211,600	.529
	4/0			61	.059	211,600	.530
M	4/0			133	.040	211,736	.599
	4/0			259	.029	211,845	.601
L		AN-000		1661	*	167,332	.548
			200 (61)	61	.057	198,700	.514
M			200 (988)	19X52	.014	199,100	.580
M	250,000			19	.115	250,000	.574
	250,000			37	.082	250,000	.575
	250,000			61	.064	250,000	.576
	250,000			91	.052	250,000	.576
		AN-0000		2104	*	211,954	.615
			220 (259)	37X7	.029	220,700	.610
			250 (61)	61	.064	250,500	.577

[1] Commercial Wire Tables.
[2] MIL-W-5086
[3] MIL-E-16366 A
* Strand diameter not specified.

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OBSOLETE CATALOG NUMBERS

Through successive manufacturing improvements and through alterations in the dimensions to conform to military standards, certain Sta-Kon Terminals have grown more and more alike. Now the differences are almost imperceptible. To eliminate confusion we have made obsolete the duplicate catalog numbers. The replacement terminals will hold the same wires and fit into the same spaces as the obsolete terminals.

Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.	Obsolete Cat. No.	Replacement Cat. No.
A33	**A85**	A33G	**A85G**	B25	**B34**	B25G	**B34G**
A84	**A85**	A84G	**A85G**	B33	**B85**	B33G	**B85G**
A36	**A87**	A36G	**A87G**	B36	**B87**	B36G	**B87G**
A77	**A86**	A77G	**A86G**	B76	**B86**	B76G	**B86G**
C76	**C26**	—	—	B77	**B86**	B77G	**B86G**

DECIMAL EQUIVALENTS

1/64 .015625	17/64 .265625	33/64 .515625	49/64 .765625
1/32 .03125	9/32 .28125	17/32 .53125	25/32 .78125
3/64 .046875	19/64 .296875	35/64 .546875	51/64 .796875
1/16 .0625	5/16 .3125	9/16 .5625	13/16 .8125
5/64 .078125	21/64 .328125	37/64 .578125	53/64 .828125
3/32 .09375	11/32 .34375	19/32 .59375	27/32 .84375
7/64 .109375	23/64 .359375	39/64 .609375	55/64 .859375
1/8 .125	3/8 .375	5/8 .625	7/8 .875
9/64 .140625	25/64 .390625	41/64 .640625	57/64 .890625
5/32 .15625	13/32 .40625	21/32 .65625	29/32 .90625
11/64 .171875	27/64 .421875	43/64 .671875	59/64 .921875
3/16 .1875	7/16 .4375	11/16 .6875	15/16 .9375
13/64 .203125	29/64 .453125	45/64 .703125	61/64 .953125
7/32 .21875	15/32 .46875	23/32 .71875	31/32 .96875
15/64 .234375	31/64 .484375	47/64 .734375	63/64 .984375
1/4 .25	1/2 .5	3/4 .75	1 1.

STUD SIZE AND CLEARANCE HOLE CHART

Stud Size	*Stud Diameter*	*Clearance Hole Diameter*
4	.112	.116-.122
6	.138	.142-.152
8	.164	.169-.178
10	.190	.193-.203
12	.216	.221-.230
1/4	.250	.260-.285
5/16	.312	.320-.343
3/8	.375	.385-.410
7/16	.437	.447-.472
1/2	.500	.510-.535

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